

OWNER'S MANUAL

30" RIDING MOWERS

Model Numbers
133-502A
133-504A
133-506A

Important:
Read Safety Rules and
Instructions Carefully

Thank you for purchasing an
American built product.

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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—READ THIS OWNER'S MANUAL.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
9. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
11. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
12. Stop the blade(s) when crossing gravel drives, walks or roads.
13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
14. Disengage power to attachment(s) and stop engine before leaving operating position.
15. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
18. Disengage power to attachment(s) when transporting or not in use.
19. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
22. Stay alert for holes in terrain and other hidden hazards.
23. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
26. Handle gasoline with care. It is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.

27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in operator's manual.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
29. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
31. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
32. Do not change the engine governor settings or overspeed the engine.
33. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
- (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
- (4) Check blade mounting bolts for proper tightness at frequent intervals.
34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up. Disengage blades before shifting into reverse and backing up.
36. This unit should not be driven up a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load properly.

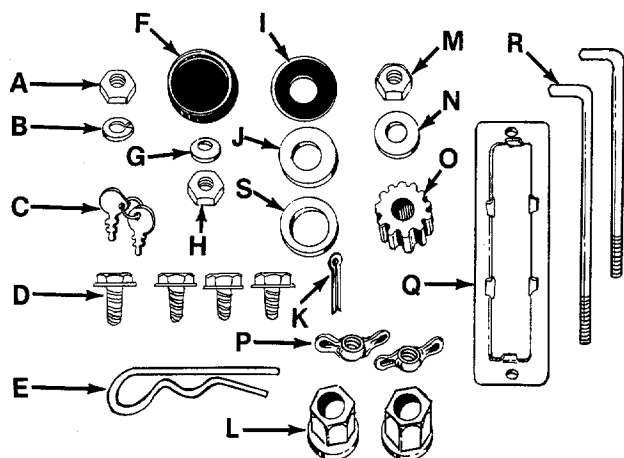


FIGURE 1.

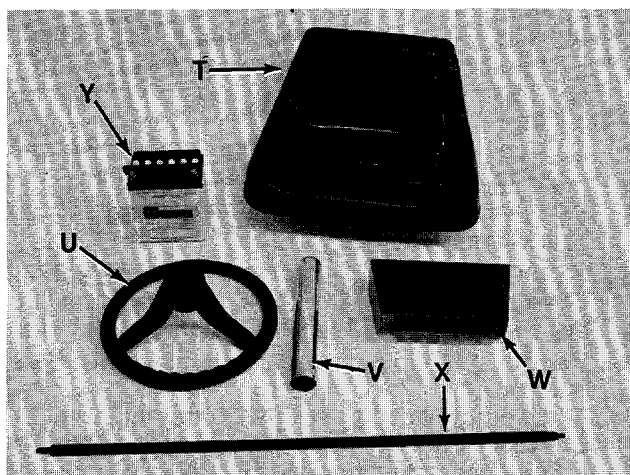


FIGURE 2.

ASSEMBLY INSTRUCTIONS



This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

Contents of Hardware Pack: (See Figure 1)

- A (1) Hex Nut 1/2-13 Thread
- B (1) Lock Washer 1/2" I.D.
- C (2) Ignition Keys (May be on Rider)
- D (4) Hex Self-Tapping Screws
- E (1) Hairpin Cotter
- F (1) Steering Wheel Cap
- G (1) Cupped Washer 5/16" I.D.
- H (1) Hex Nut 5/16-18 Thread
- I (1) Steering Tube Spacer
- J (1) Flat Washer 5/8" I.D. x 1-5/8" O.D.
- K (1) Cotter Pin
- L (2) Hex Flange Bearings
- M (1) Hex Nut 5/16-24 Thread
- N (1) Flat Washer 5/16" I.D. x 5/8" O.D.
- O (1) Pinion Gear
- P (2) Wing Nuts (Models 504 & 506)
- Q (2) Battery Hold Down Rods (Models 504 & 506)
- R (1) Battery Hold Down (Models 504 & 506)
- S (1) Flat Washer 5/8" I.D. x 1 1/4" O.D.

Loose Parts in Carton: (See Figure 2)

- T (1) Seat
- U (1) Steering Wheel
- V (1) Steering Tube—Chrome
- W (1) Steering Gear Cover
- X (1) Steering Shaft
- Y (1) 12 Volt Battery (Models 504 & 506)

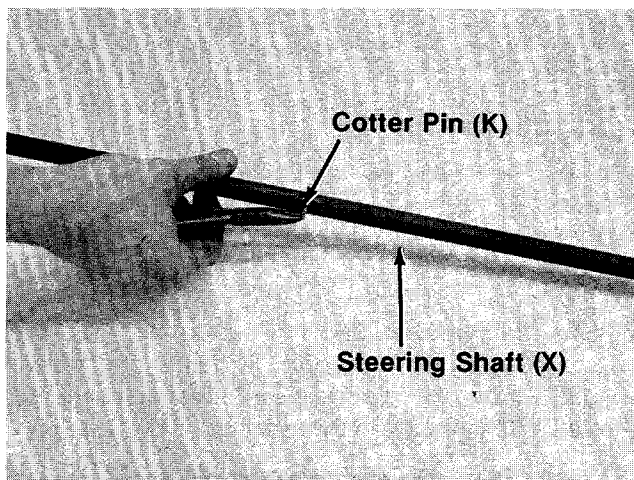


FIGURE 3.

INSTALLATION OF STEERING MECHANISM

1. Insert the **cotter pin (K)** into the hole on **steering shaft (X)**. Secure in place by bending the ends of the cotter pin in opposite directions.

← See figure 3.

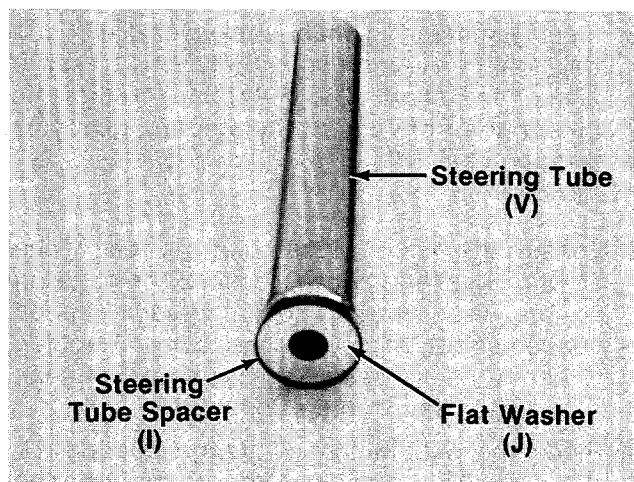


FIGURE 4.

2. Press the large **flat washer (J)** (1-5/8" diameter) into the open side of the black plastic **steering tube spacer (I)**. See figure 4.

←

3. Press the **steering tube spacer** into one end of the chrome-plated **steering tube (V)**. See figure 4. Make certain spacer is seated securely into tube.

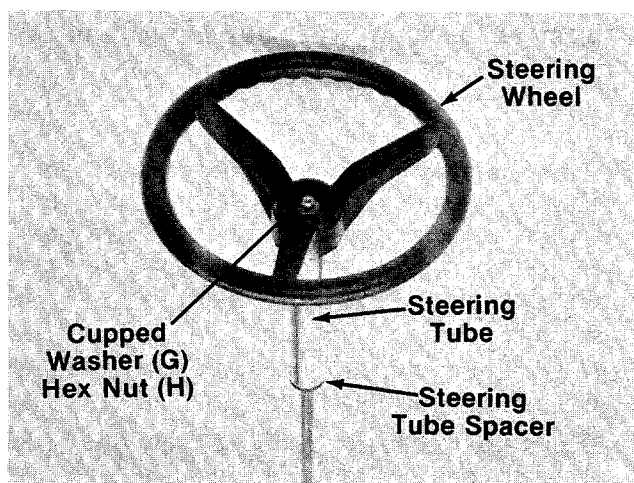


FIGURE 5.

4. With the **steering shaft** in the normal upright position (end with flattened portions up), slide the **steering tube spacer** and **steering tube** down over the **shaft**. See figure 5.

←

5. Place **steering wheel (U)** over the end of the **steering shaft**, lining up the flattened portions of the steering shaft with the flattened portions of the steering wheel. Make certain steering wheel is seated over the end of the steering tube.

6. Place **cupped washer (G)** over the **steering shaft**, with the cupped side of the washer against the steering wheel. Secure with **hex nut (H)** (5/16" I.D.). See figure 5. Tighten securely.

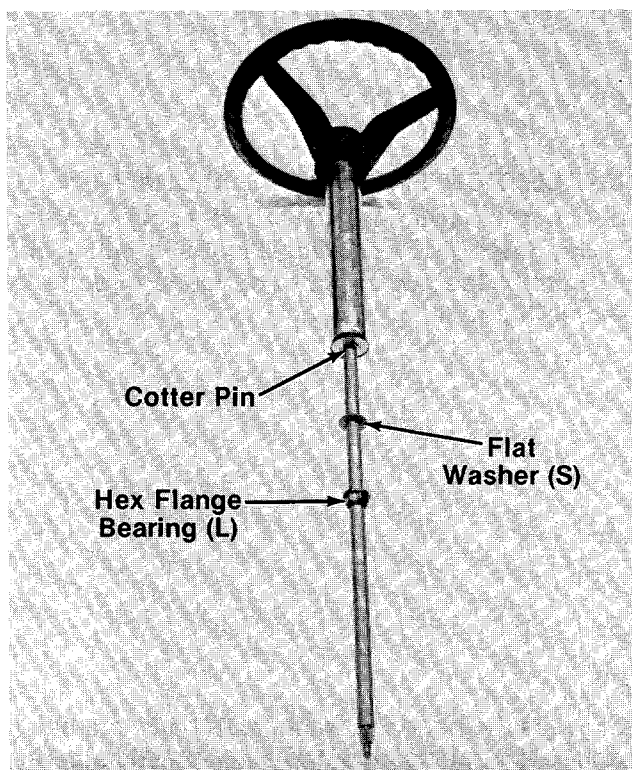


FIGURE 6.

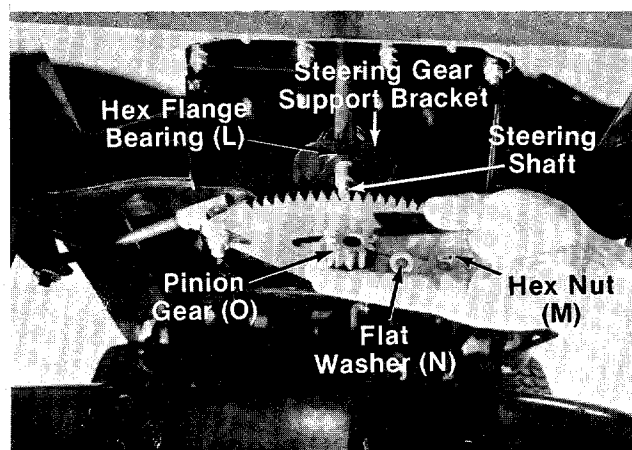


FIGURE 7.

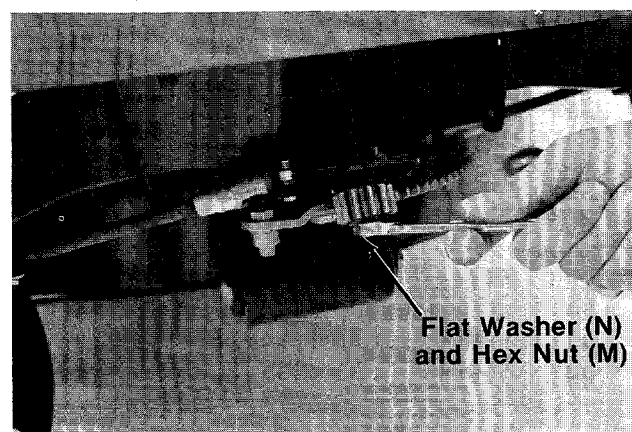


FIGURE 8.

7. Slip **flat washer (S)** ($1\frac{1}{4}$ " diameter) on the **steering shaft** immediately below the cotter pin. Place one plastic **hex flange bearing (L)**, flat side up, below the washer. See figure 6.

8. Insert the **steering shaft** with assembled parts through the **steering housing cover**. The lower end of the shaft should extend through the hole in the front end of the **steering gear support bracket** (Ref. No. 12 on page 30). See figure 7.

9. Loosen the **hex nut** located at the **rear of the steering gear segment** (Ref. No. 27 on page 30) so that the steering gear segment can be pushed about $\frac{1}{4}$ " toward the rear of the rider, to permit easier assembly of the **pinion gear**. Two $\frac{9}{16}$ " wrenches are required.

10. Place the remaining **hex flange bearing (L)**, flat side down, over the end of the **steering shaft**, and seat it into the **steering gear support bracket**. See figure 7.

11. Position **pinion gear (O)** over splined collar on **steering shaft**. Then place **flat washer (N)** ($\frac{5}{8}$ " diameter) on shaft and secure with **hex nut (M)** ($\frac{5}{16}$ " I.D.). Do not tighten at this time.

12. Push the **steering gear segment** (loosened in step 9) forward toward its original position, until it **engages the teeth of the pinion gear**. Retighten the nut at the rear of the steering gear segment. Two $\frac{9}{16}$ " wrenches are required.

13. Now tighten the **hex nut (M)** which secures the pinion gear. See figure 8.

14. Lubricate the teeth of the pinion gear and steering gear segment with an automotive chassis grease.

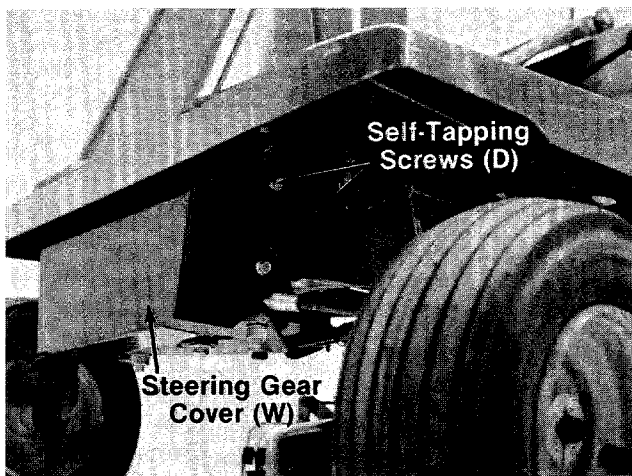


FIGURE 9.

15. Install the **steering gear cover (W)** as shown in figure 9, to cover the underside of the steering mechanism. Secure with two **self-tapping screws (D)** on each side of the cover. Do not completely tighten any of these screws until all four of them are positioned correctly.
16. Press **steering wheel cap (F)** in place in the center of the **steering wheel**.

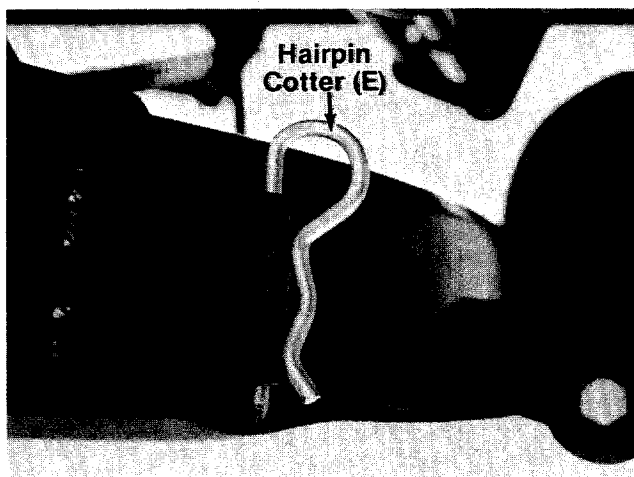


FIGURE 10.

CHUTE DEFLECTOR

Secure the **chute deflector** to the deck by placing the **large hairpin cotter (E)** in the **chute deflector bracket**, located on the front of the deck. See figure 10.

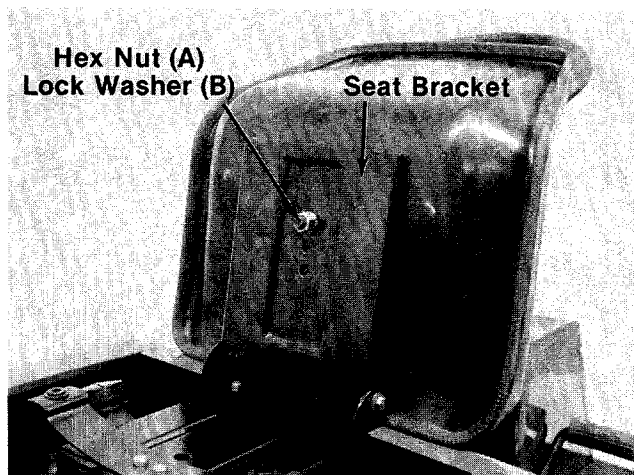


FIGURE 11.

SEAT

The seat may be adjusted to three different positions. Select the desired seat position and secure the **seat** to the **seat bracket** with **hex nut (A)** and **lock washer (B)**. See figure 11.

BATTERY INFORMATION FOR ELECTRIC START MODELS ONLY



WARNING

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.

- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

***Always shield eyes, protect skin and clothing when working near batteries.**

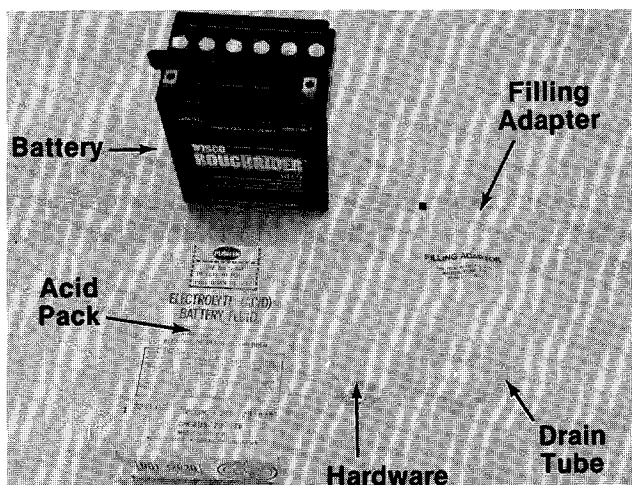


FIGURE 12.

ACTIVATING AND INSTALLING THE BATTERY

1. Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling adapter and hardware. See figure 12.



DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

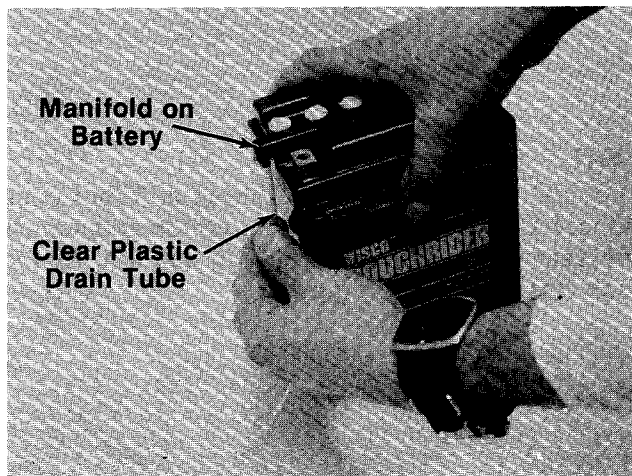


FIGURE 13.

2. Place the battery on table or workbench to be filled.
3. Place one end of clear plastic drain tube on manifold of battery. See figure 13.



NOTE

Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.

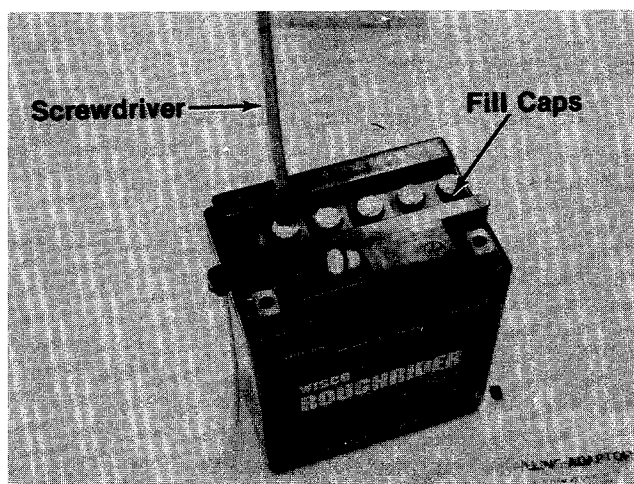


FIGURE 14.



FIGURE 15.



WARNING

Battery contains sulfuric acid. Refer to warning on page 8. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Seek prompt medical attention. EYES: Flush with cool water for at least 15 minutes, then seek immediate medical attention. Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away. Be sure to charge battery only in well-ventilated areas.

**KEEP BATTERIES
OUT OF THE REACH OF CHILDREN!**

4. Remove the six fill caps from the top of the battery with a screwdriver. Care should be taken not to damage the fill caps. See figure 14.
5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. **Do not** use a sharp tool or object to open acid package.
6. Pull out hose from package and hold upright. Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling adapter. See figure 15.
7. Fill each cell to upper level marked on front of battery. Replace fill caps on battery. See figure 15.
8. Allow battery to sit for 20 to 30 minutes. Add additional acid, if necessary, to bring it up to the proper level.
9. The battery can be charged after the 20 minutes sitting period. The battery can be slow charged (do not fast charge) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

NOTE

Charging rate after battery has been put into operation: The battery is to be charged for a period of 14-16 hours, NO LONGER THAN 30 HOURS.



CAUTION

After battery has been in service, add only distilled water. **DO NOT ADD ACID.**

NOTE

During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

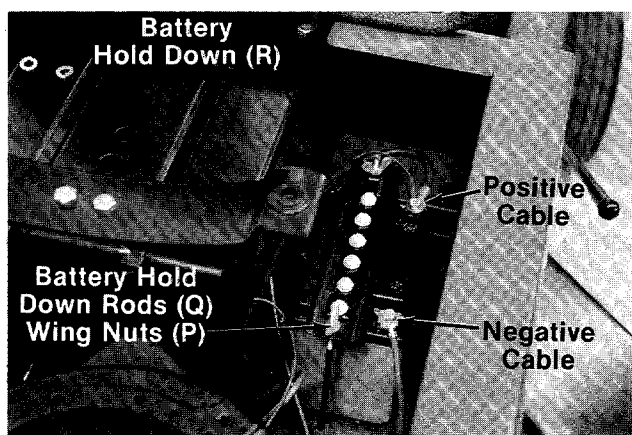


FIGURE 16.

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should be approximately 15 p.s.i. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.

CONTROLS

This manual should be read in its entirety before operating the riding mower. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from 3/4 to full throttle when operating the cutting deck. See figure 17.

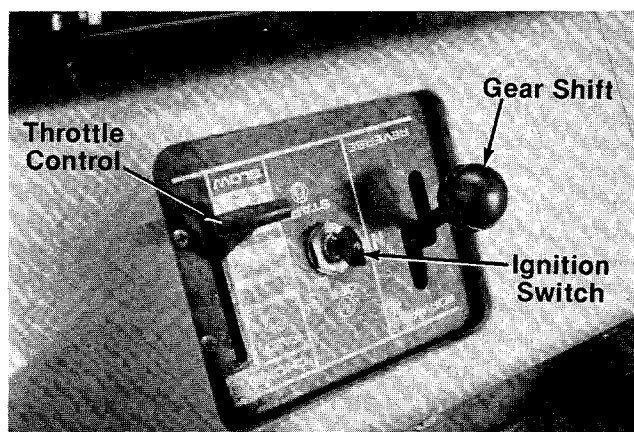


FIGURE 17.

INSTALLING THE BATTERY (Electric Start Models Only)

1. Place the battery in the rider with the positive terminal to the front. The negative terminal goes to the rear of the unit. See figure 16.
2. Hook the battery hold down rods into the frame.
3. Secure the battery in place with battery hold down (R) and hold down rods (Q). Secure with two wing nuts (P). See figure 16.
4. Place the positive cable and small red wire with in-line fuse on the positive terminal. Secure with bolt, nut and lock washer provided with battery. See figure 16.
5. Place the negative cable on the negative terminal. Secure with bolt, nut and lock washer provided with battery. See figure 16.

IGNITION KEY

Recoil Model—The key must be turned to the “ON” position before pulling the recoil handle to start the engine. Turn the key to the left to the “OFF” position to stop the engine. Remove the key when the unit is not in use.

Electric Start Model—The key must be turned to the “START” position to start the engine. After the engine is running, let the key return to the “ON” position. Turn the key to the “OFF” position to stop the engine. Remove the key when the rider is not in use. See figure 17.

SHIFT LEVER

The shift lever is located on the left hand side of the console and has three positions, “FORWARD,” “NEUTRAL” and “REVERSE.” See figure 17. The clutch-brake pedal must be depressed and the riding mower must not be moving when shifting gears. Do not force the shift lever. Release the clutch-brake pedal slightly to line up the shifting collar in the transmission. Then try to shift gears.

SPEED CONTROL LEVER

The speed control lever allows you to regulate the ground speed of the riding mower. See figure 18. It may be set in any one of five positions. To set, depress clutch pedal. Push speed control lever inward and move backward to slow rider, move forward to increase speed. When desired speed has been obtained, place lever in that position. Whenever clutch is engaged, rider will automatically go to the pre-set speed.

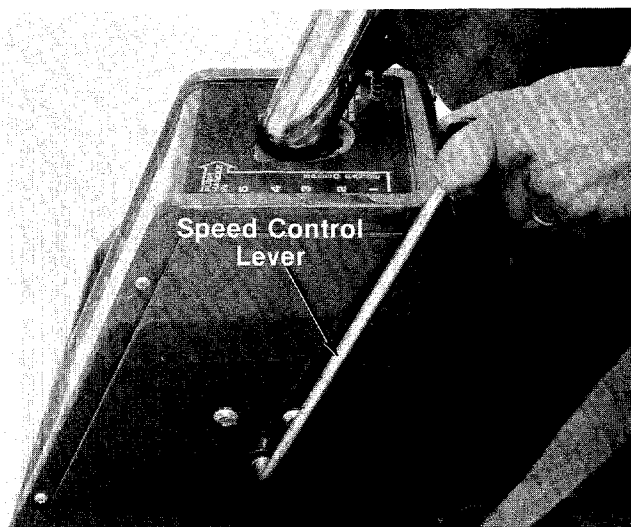


FIGURE 18.

GASOLINE GAUGE

The gasoline gauge is located in the gasoline fill cap. The gauge indicates the amount of fuel in the tank.

CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the right side of the rider. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 19.



NOTE

The clutch-brake pedal must be depressed to start the engine.

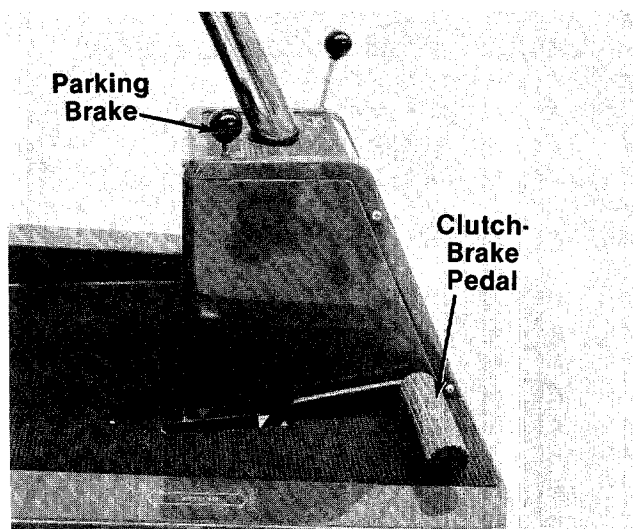


FIGURE 19.

PARKING BRAKE

To set the parking brake, depress the clutch-brake pedal and press the parking brake knob down. To release the parking brake, depress and release the clutch-brake pedal. See figure 19.

BLADE ENGAGEMENT LEVER

The blade engagement lever is located on the right hand side of the deck. Figure 20 shows the blade engagement lever in the disengaged position.

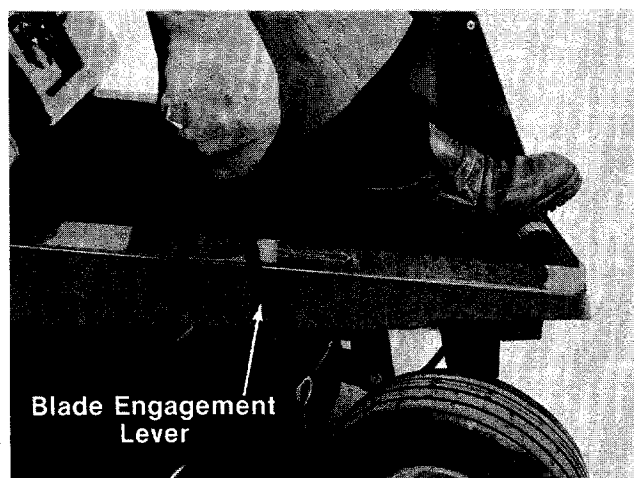


FIGURE 20

To engage the blade, move the blade engagement lever toward the front of the unit. Move the lever toward the rear to disengage the blade.

DECK CUTTING HEIGHT LEVER

The deck cutting height lever is used to raise and lower the cutting deck, which sets the cutting height.

Move the lever outward, select desired cutting height and release lever. The lever may be set in any one of the six cutting height positions. See figure 21.



CAUTION

The blade does not shut off when the deck is raised. You must place the Blade Engagement Lever in the disengaged (OFF) position.



FIGURE 21.

SAFETY INTERLOCK SYSTEM

Interlock safety switches are located on the clutch-brake pedal, the blade engagement lever and shift lever.

Before the engine will start, the clutch pedal must be depressed all the way and the blade engagement lever must be in the disengaged position.

Before the unit can be shifted into reverse, the blade engagement lever must be in the disengaged position.

RECOIL STARTER HANDLE (Model 502 Only)

The recoil starter handle is located on the left rear side of rider. The recoil starter handle can be pulled while standing by the left rear side of unit. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the rope handle bracket before the blade or clutch is engaged. The engine will stop if these instructions are not followed. See figures 22 and 23.

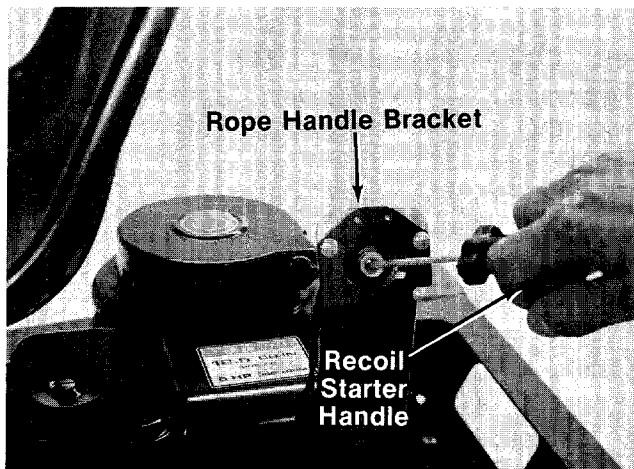


FIGURE 22.

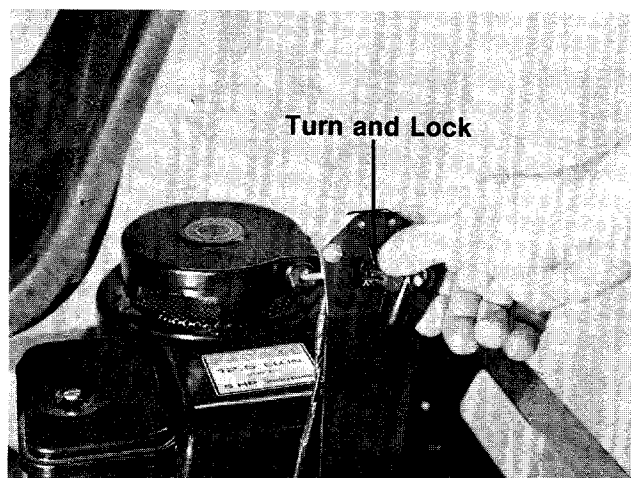


FIGURE 23.

OPERATION



CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
 - a. Shift transmission to neutral
 - b. Set parking brake
 - c. Disengage attachment clutch
 - d. Shut off engine
 - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

CAUTION

**DO NOT OPERATE
MOWER UNLESS
GUARD OR ENTIRE
GRASS CATCHER IS
IN ITS PROPER PLACE.**



NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the blade engagement lever is in the disengaged position. In addition, the blade engagement lever must be in the disengaged position when the unit is put into reverse or the engine will shut off.



WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

STARTING THE ENGINE



CAUTION

Get on and off the unit from the left hand side to avoid possible contact with the blade engagement lever (located on the right hand side).

1. Be sure the crankcase is filled with oil as recommended in the engine manual. Fill fuel tank with **regular** gasoline.
2. Attach the wire to the spark plug.
3. Depress the clutch-brake pedal and lock it down.
4. Move the blade engagement lever back to the disengaged position.
5. Set the throttle control lever in the "CHOKE" position.
6. a. **Recoil Model.** Turn the ignition key to the "ON" position. Twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figure 22.
b. **Electric Start Model.** Turn the ignition key to the "START" position. As soon as the engine starts, let the key return to the "ON" position. See figure 17.
7. Slowly return the throttle to the running position as soon as the engine starts.

8. To stop, turn the ignition key to the "OFF" position. Remove the key when the rider is not in use.

PUTTING THE RIDING MOWER IN MOTION



CAUTION

Parking brake **must** be disengaged before unit is put into motion.

1. Advance the throttle control from 3/4 to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Place the shift lever in either the "FORWARD" or "REVERSE" position.



CAUTION

Look to the rear before backing up.

3. Slowly release the clutch-brake pedal.
4. To stop, depress the clutch-brake pedal.
5. The blades can be engaged either while moving or while standing still. Move the blade engagement lever forward slowly until the blades are turning.



WARNING

When the blades are engaged, keep feet and hands away from the discharge opening, the blades or any part of the deck.

STOPPING

Engine—Turn the ignition key to the left to the "OFF" position.

Rider—Depress the clutch-brake pedal.

Blades—Pull the blade engagement lever all the way back.



CAUTION

If the unit is not to be used for a long period, place the shift lever in NEUTRAL, stop the engine, set the parking brake and remove the key. **DO NOT** leave the machine on an incline.



NOTE

A brief break-in period is essential to ensure maximum engine and mower life. The break-in consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 5 hours of operation.

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.



NOTE

If the riding mower should stall or run out of gas with the clutch engaged (clutch-brake pedal released), you **must** proceed as follows.

1. Rock the unit, and at the same time pull the shift lever back into neutral (N) position. **Do not force** shift lever at any time.
2. Pump the clutch-brake pedal gently until the clutch-brake pedal is depressed all the way and can be locked down.



IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

GRASS CATCHER Model 015 is available as optional equipment for the mower shown in this manual.



WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.



NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

ADJUSTMENTS



CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

THROTTLE CONTROL

To Check Operation:

1. Remove air cleaner.
2. Move throttle control lever to "CHOKE" position. The carburetor choke should be closed.
3. Move throttle control lever to "STOP" position. Lever should make good contact with stop switch.

If adjustment is needed, refer to the separate engine manual packed with your unit.

BRAKE ADJUSTMENT (See Figure 24)

During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.

The brake is located by the left rear wheel inside the frame.

To adjust the brake, loosen the outside hex nut. Tighten the inside hex nut one-quarter turn. Test the brake and repeat adjustment if necessary. Then tighten the outside hex nut. See figure 24.

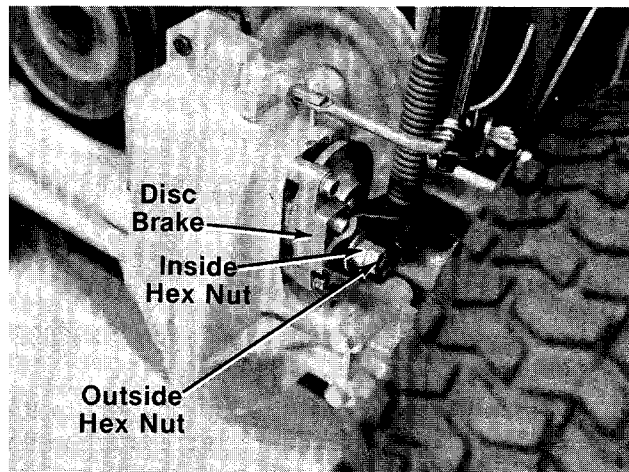


FIGURE 24.

WHEEL ALIGNMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the mower. The front wheels should toe-in 1/8 inch. See figure 25. To adjust, follow these steps:

1. Remove the cotter pin and flat washer which hold the tie rod to the axle bracket. See figure 25.
2. Adjust the tie rod in or out until the wheels toe-in approximately 1/8".
3. Replace the tie rod into the wheel bracket, and replace the cotter pin and flat washer.

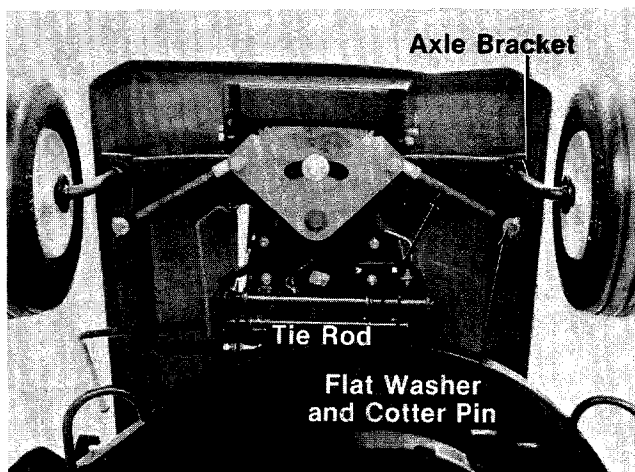


FIGURE 25.

DECK ADJUSTMENT ROD

If an uneven cut is obtained, the deck may be adjusted. A deck adjustment rod is located on the right side of the unit. See figure 26.

To adjust the deck, loosen the two hex nuts at the left rear deck link assembly. Thread the hex nuts up or down the deck adjustment rod as necessary. Retighten the hex nuts.

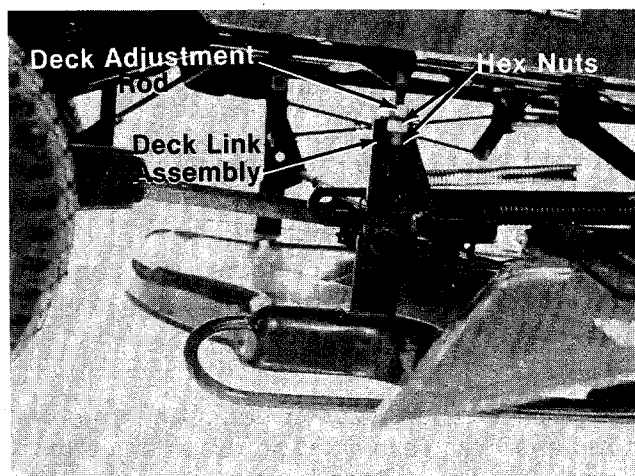


FIGURE 26.

CARBURETOR ADJUSTMENT



If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust the carburetor, refer to the separate engine manual packed with your unit.

LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on riding mower.

1. **Engine.** Maintain the engine oil according to the engine manual.
2. **Bearings.** The following bearings are plastic and do not require lubrication. However, their normal life can be extended by lubricating them once a season with a light, non-detergent oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.
 - a. King Pin Bearings (total 4 bearings)
 - b. Front Wheel Bearings (total 4 bearings)
3. **Throttle Control and Cable.** Wipe oiled rag along entire length of cable.
4. **Linkage.** Oil all deck linkage and height adjustment linkage.
5. **Transaxle.** It is lubricated at the factory and does not require checking. Lubricate with 10 oz. of grease (Part No. 737-0148) if disassembled.

MAINTENANCE



WARNING

Disconnect spark plug wire and ground it against the engine before performing any repairs or maintenance.

CUTTING BLADE

A. Removal for Sharpening or Replacement



WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle. See figure 27.
2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter. See figure 27.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.



NOTE

It is recommended that the blade always be removed from the adapter for the best test of balance.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil.

Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.



NOTE

To insure safe operation, ALL nuts and bolts must be checked periodically for correct tightness.

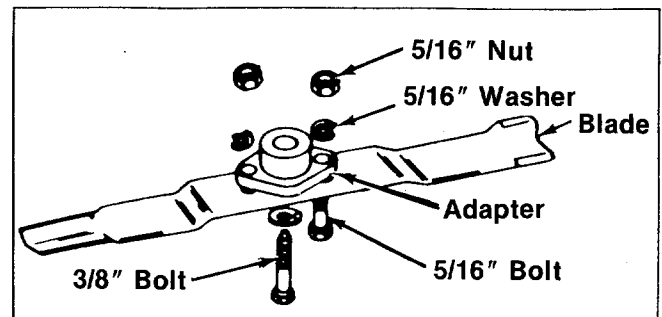


FIGURE 27. BLADE REMOVAL

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation or each period of use. Refer to separate engine manual.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. Refer to separate engine manual.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



NOTE

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

INSTALLATION OF TIRE TO RIM



WARNING

The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are seated.

BELT REMOVAL AND REPLACEMENT



NOTE

It is recommended that the entire instructions on belt removal and replacement be read before changing the belts.

Deck Belt

1. Remove the battery from the unit (electric start models only).
2. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.
3. Disconnect the spark plug wire and ground it against the engine.



NOTE

Rear wheel was removed for clarity only. It is not necessary to remove the wheel when changing belts.

4. Move the blade engagement lever to the disengaged position.
5. Remove one hex bolt and lock washer at the front of upper engine belt guard. A 7/16" wrench is required. See figure 28.
6. Loosen (**Do Not** remove) the second bolt. See figure 28.

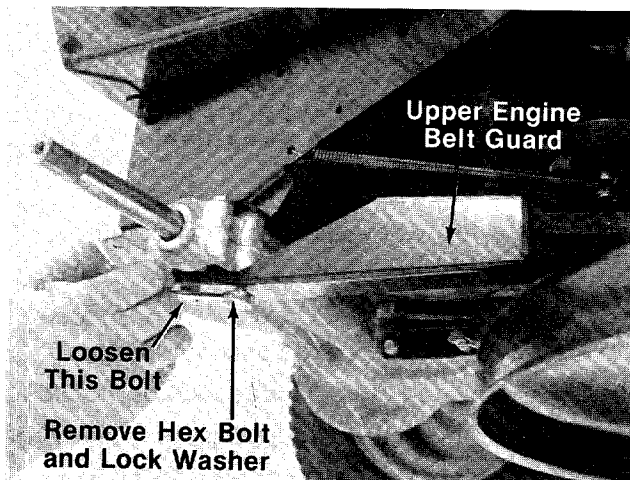


FIGURE 28.

7. Pivot the upper engine belt guard out and away from the engine pulley. See figure 29.

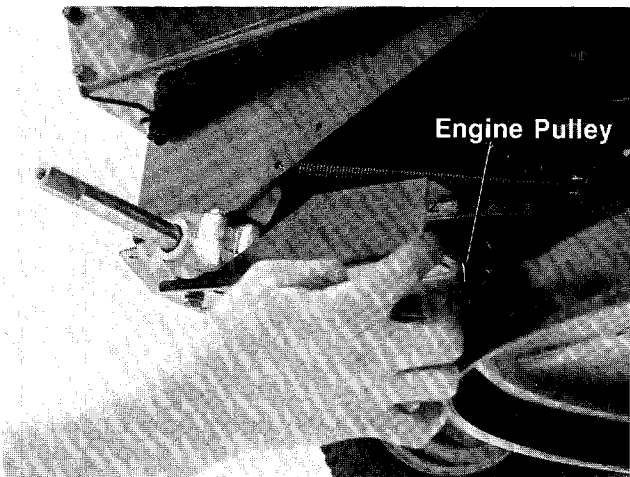


FIGURE 29.

8. Remove the hex bolt at the lower inside belt guard (at transaxle) which holds the brake cable assembly. See figure 30. A 3/8" wrench is required.

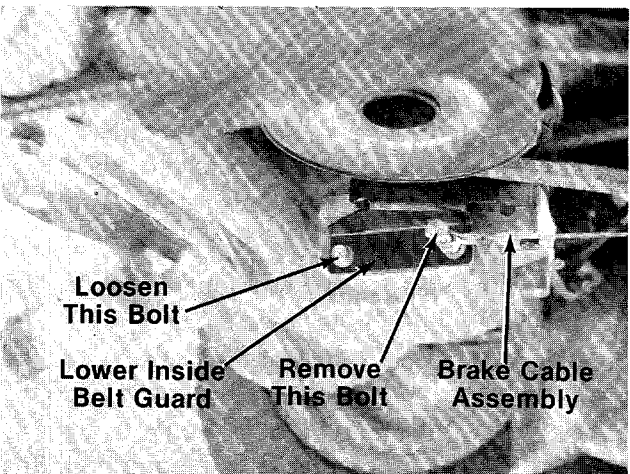


FIGURE 30.

9. Loosen the second bolt (**do not remove**), then pivot the guard upward, and slip the deck belt off the engine pulley. See figures 30 and 31.

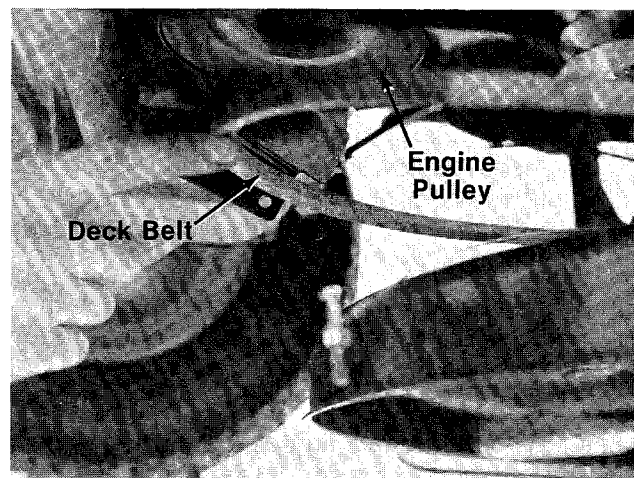


FIGURE 31.

10. Remove the three (3) hairpin cotters and flat washers which hold the deck links to the rider. Two (2) are located at the rear of the deck. See figure 32. One (1) is located at the front of the deck.

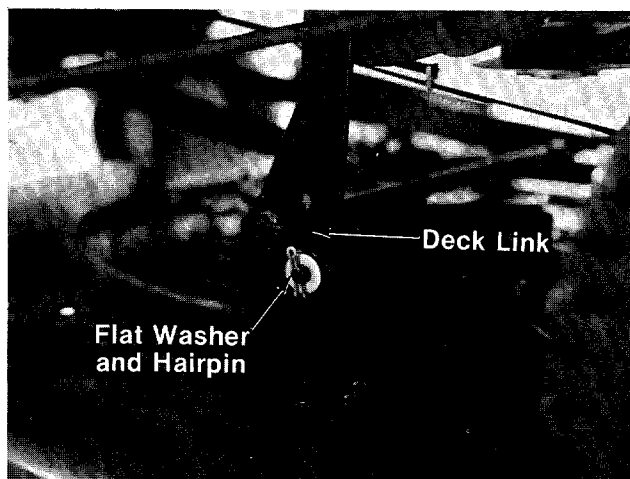


FIGURE 32.

11. Unplug the orange wire from the chute safety switch. Then lift the deck off the rider. See figure 33.

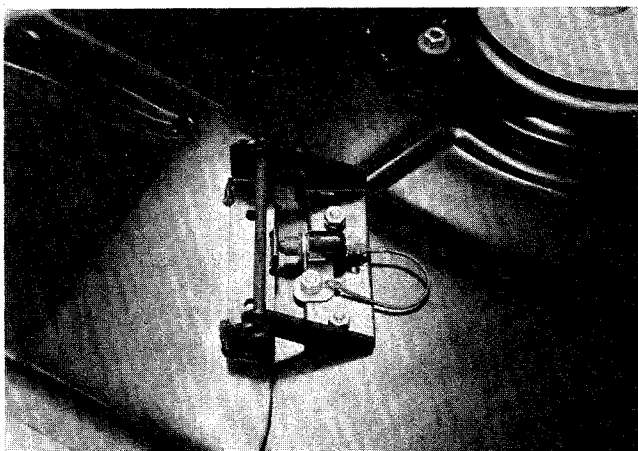


FIGURE 33.

12. Remove the two belt keepers on the deck. See figure 34.
13. Remove and replace the deck drive belt.

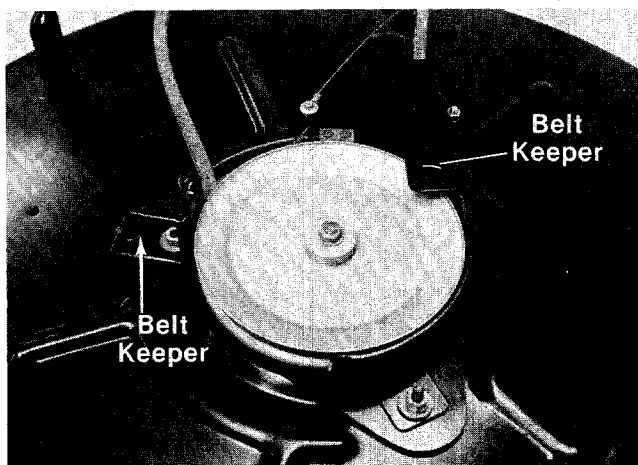


FIGURE 34.

DRIVE BELT

1. Remove the deck as outlined in steps 1 through 11 in previous section.
2. Unhook the idler spring from the rider frame. See figure 35.

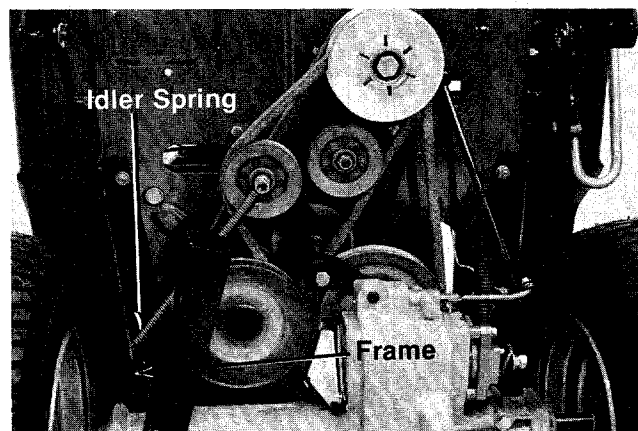


FIGURE 35.

3. Remove the hex bolt, nut and lock washer at the torque rod bracket and transaxle. See figure 36.

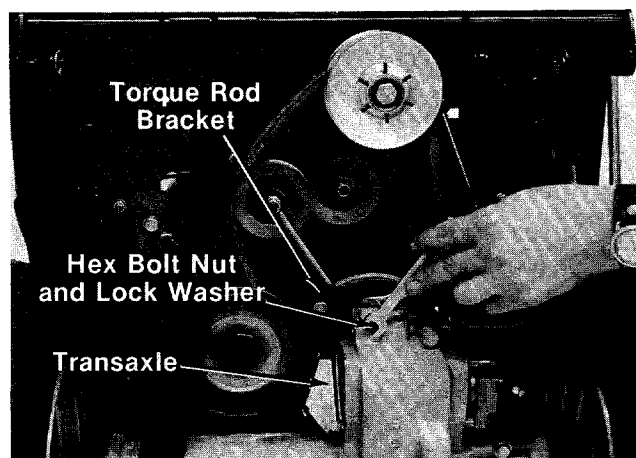


FIGURE 36.

4. Remove the hex bolt which holds the torque rod bracket to the torque rod, and remove bracket. See figure 37.

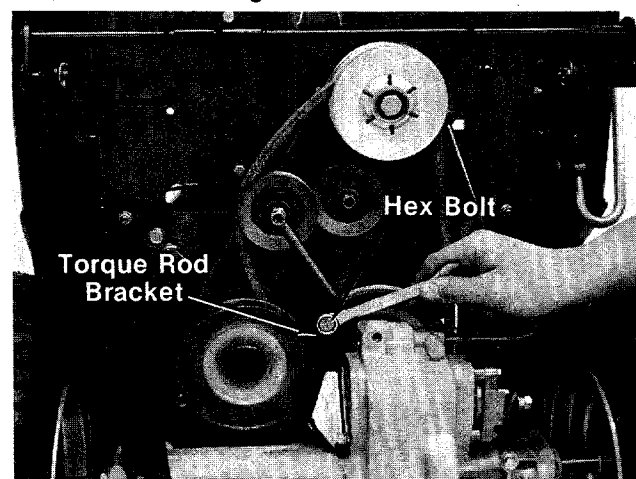


FIGURE 37.

5. Slip the "V"-belt off the variable speed pulley and transaxle pulley. See figure 38.

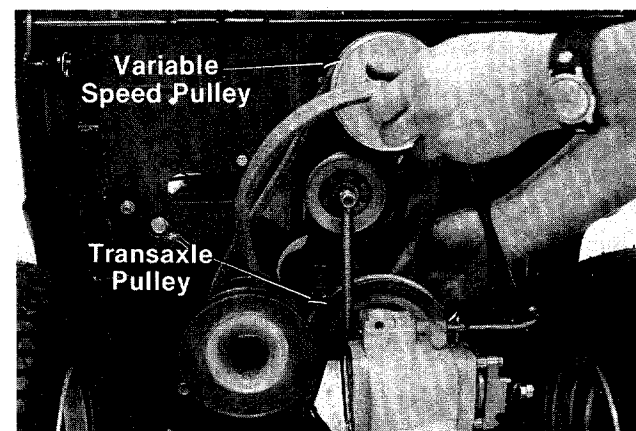


FIGURE 38.

6. Remove two hex bolts, nuts and lock washers from the engine pulley belt guard at rider frame to allow the engine pulley belt guard to drop down out of the way. See figure 39.



FIGURE 39.

7. Remove the idler pulley by removing the hex lock nut. See figure 40.

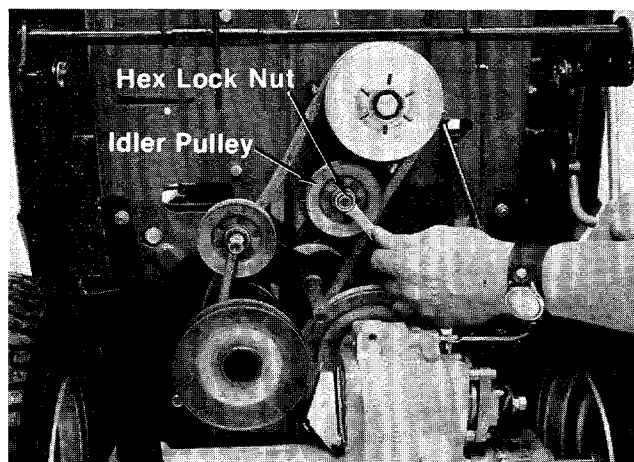


FIGURE 40.

8. Remove and replace the "V"-belt. See figure 41.

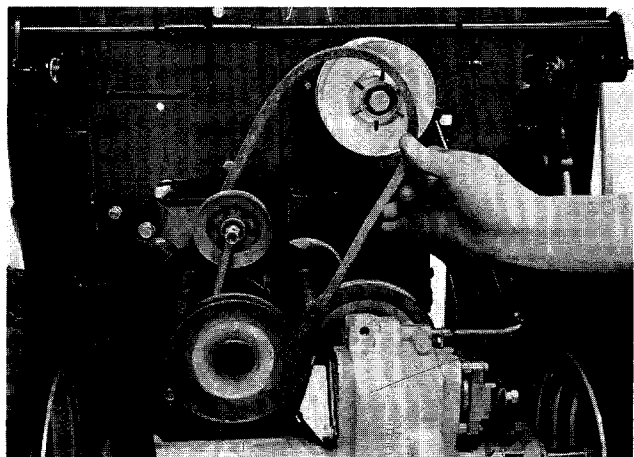


FIGURE 41.

9. Upon reassembly of idler pulley, be certain the hub side of idler goes against the idler bracket. See figure 42.
10. When sliding the idler pulley on the idler bracket, be certain the belt is between the pulley and guide pin. See figure 43.

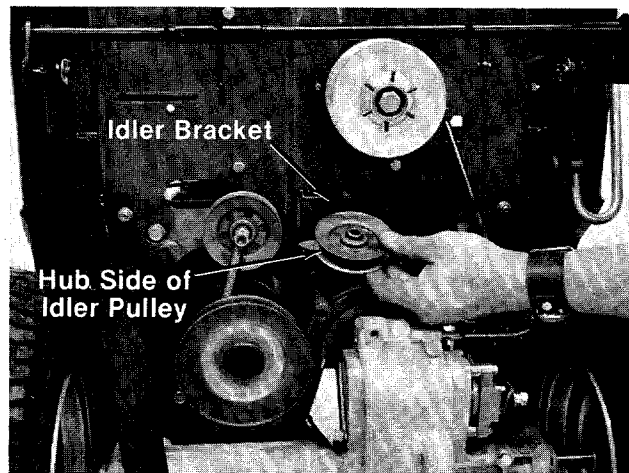


FIGURE 42.

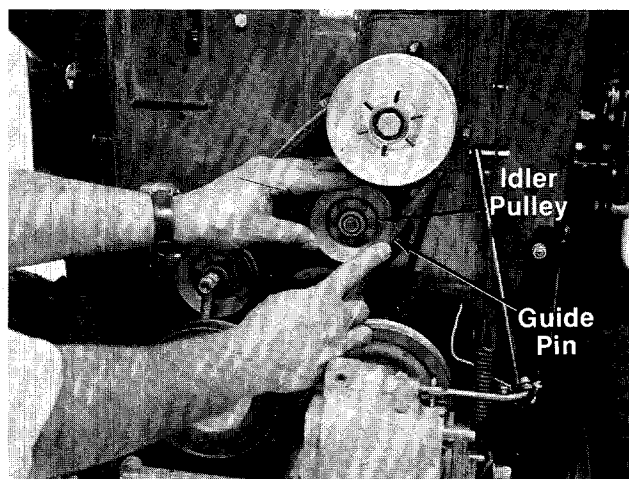


FIGURE 43.

11. Reverse the above steps (paying close attention to steps 9 and 10) when reassembling the new belts.

NOTE

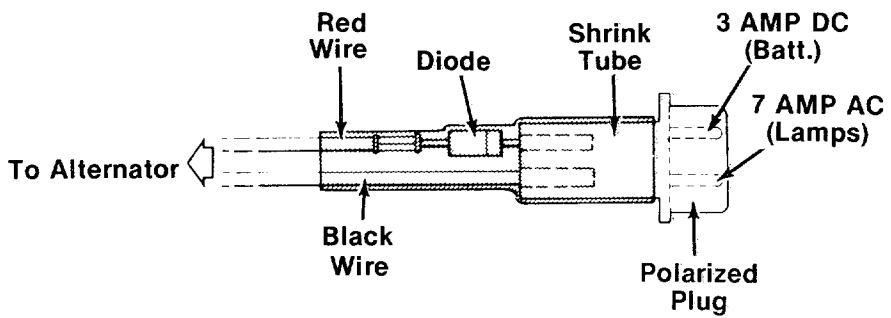
Be certain all belts are inside belt guards and keepers. Also, be sure to reassemble the safety wire (orange) at the deck chute.

OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. Refer to battery storage instructions on page 17.
5. Store unit in a clean, dry area.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blown fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80° F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger.</p> <p>Trickle Charger. Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp.</p> <p>Alternator (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  <p>The diagram shows a cross-section of the wiring harness. On the left, a red wire is labeled 'Red Wire' and a black wire is labeled 'Black Wire'. They are both enclosed in a 'Shrink Tube'. The red wire is labeled '3 AMP DC (Batt.)' and the black wire is labeled '7 AMP AC (Lamps)'. A 'Diode' is shown in the middle of the red wire. An arrow points from the red wire towards the left, labeled 'To Alternator'. On the right, a 'Polarized Plug' is shown connected to the battery.</p> </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p>
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission gear. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only).

BELT TROUBLE SHOOTING CHART

Failure	Probable Cause	Corrective Action
1 Broken Belt	1A Sudden stop or shock load to belt	1A Inspect rider for cause such as foreign objects stuck in between deck and frame or belt path. Remove obstruction and inspect for damage. Replace belt per parts list in this manual.
	1B Incorrect belt used	1B Replace with proper belt only. See parts list in this manual. Roll belt onto pulley. Do not use a screwdriver to push or pry belt onto pulley. The sharp bend can damage internal cords.
	1C Abrupt engagement	1C Slower engagement required.
	1D Defective or damaged belt	1D Refer to 1B.
2 Belt Shreds	2A Belt guides or guards incorrectly adjusted	2A Belt guides and guards should be adjusted to approximately 1/16 to 1/8 inch from belt when in the engaged position.
	2B Pulleys not aligned	2B Realign pulleys to be within approximately 1/16 inch of each other. Check with straight edge. Be sure fastening hardware is tight.
	2C Bad pulley—rough, rusty, chipped, bent, frozen bearing, etc.	2C Replace as necessary. Adjust as per 2B.
3 Belt Comes Off	3A Belt stretched	3A Adjust as necessary when applicable. Refer to 1B.
	3B Broken or weak idler spring	3B Replace.

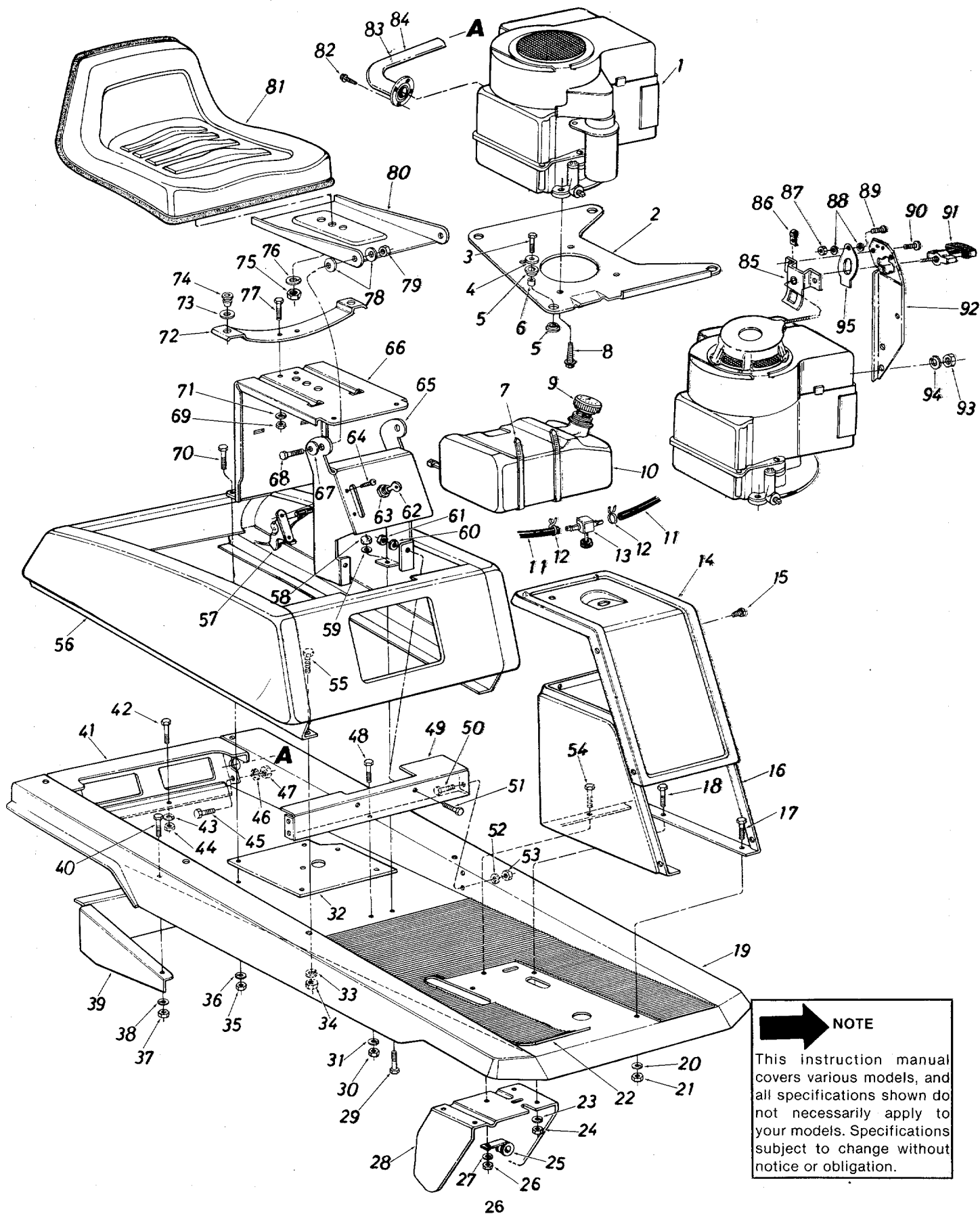
TROUBLE SHOOTING CHART FOR RECOIL START MODELS

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

TROUBLE	LOOK FOR	REMEDY
Engine will not start when recoil handle is pulled.	Clutch and blade not disengaged.	Clutch pedal must be depressed and blade must be shut off.
	Ignition key not in the ON position.	Turn on the ignition key.
	Throttle not in the starting position.	Check owner's guide for correct position for throttle control for starting.
	No spark to spark plug.	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have the engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor.	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line is plugged. Remove and clean.
	Air filter dirty.	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
	Mechanical failure (wires or switch).	The interlock system includes two mechanical activated switches which are wired in parallel. If the buttons on both switches are not depressed at least 1/8", the magneto will be grounded and the engine will not start. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Disconnect the yellow wire where it attaches to the primary wire from the breaker assembly on the engine. Try to start the engine. If the engine does not start , the problem is in the engine (e.g. no fuel or no ignition). If the engine does start, the problem is in the safety system. Check the following: 1. The interlock wire may be grounded by being pinched or rubbing through the insulation. Tape or replace the wire. 2. The bolt on the flat spring behind the recoil starter where the yellow wire attaches must be insulated from the spring. Use a continuity tester. If it is not insulated, remove the bolt and nut, and replace the two fiber washers and reassemble.
Engine stops when the mower blade is engaged or the clutch is released.	Recoil handle is not in proper position.	After the engine starts, the recoil starter handle must be pushed into the dashboard and turned a quarter turn either direction to lock it in place.
Engine smokes.	Engine loses crankcase vacuum.	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness or damage. Tighten or replace any damaged parts.
	Bent blade.	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips.	Engine speed too low.	Throttle must be set between 3/4 and full throttle.
	Transmission selection.	Use lower transmission gear. The slower your ground speed, the better the quality of cut.
	Blades short or dull.	Sharpen or replace blades (uncut strip problem only).

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Models 502, 504 and 506



NOTE

This instruction manual covers various models, and all specifications shown do not necessarily apply to your models. Specifications subject to change without notice or obligation.

Models 502, 504 and 506

PARTS LIST FOR MODELS 502, 504 AND 506 RIDING MOWER

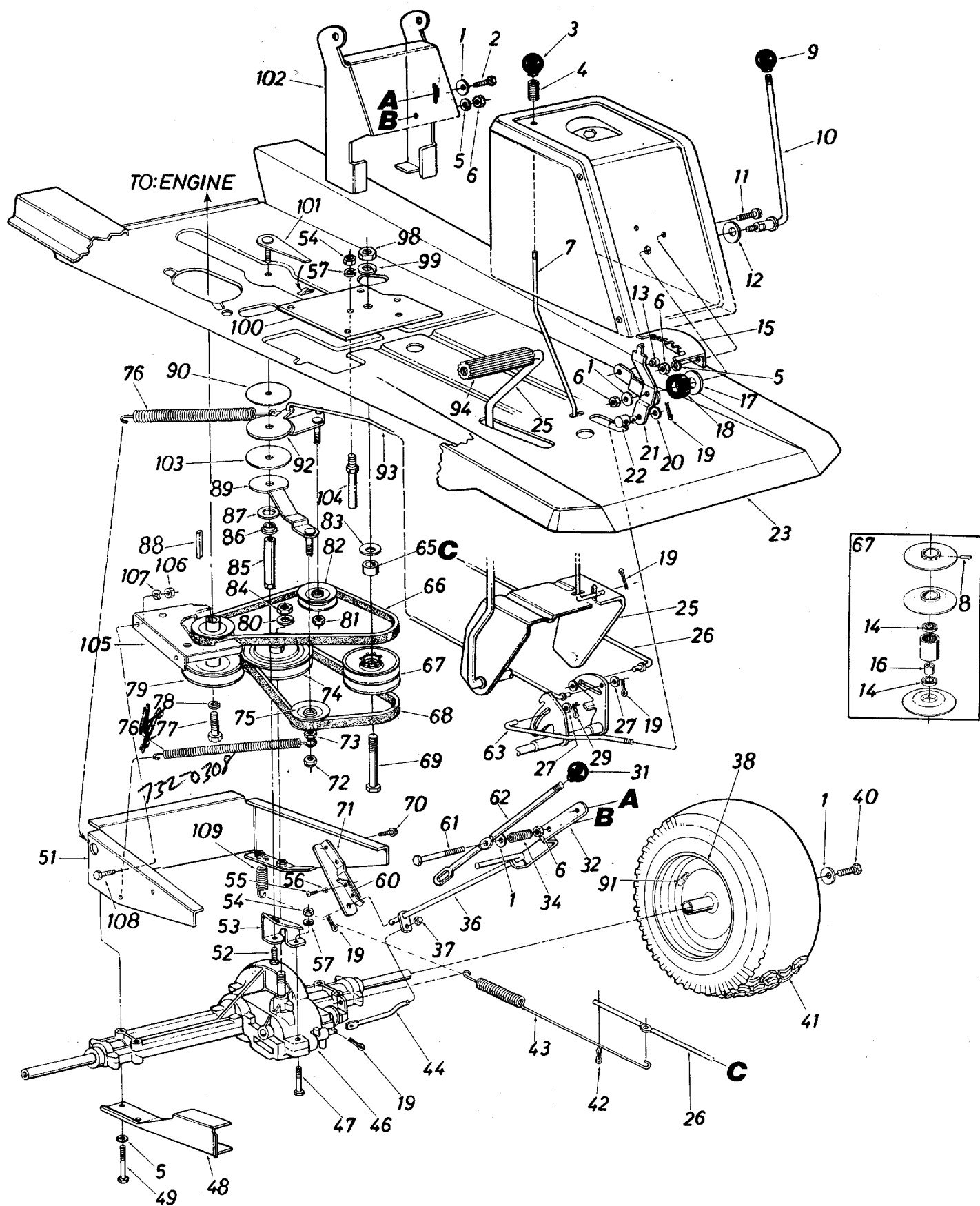
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine		52	736-0119		L-Wash. 5/16" I.D.*	
2	15572		Engine Mounting Plate	N	53	712-0267		Hex Nut 5/16-18 Thd.*	
3	710-0158		Hex Bolt 5/16-24 x 1.25" Lg.*		54	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
4	736-0231		Fl-Wash. .330" I.D. x 1.125" O.D.		55	710-0289		Hex Bolt 1/4-20 x .50" Lg.*	
5	722-0153		Engine Mounting Grommet		56	15561		Engine Cover Ass'y.	N
6	750-0539		Spacer .315" I.D. x .50" O.D. x .520" Lg.		57	746-0220		Throttle Control	
7	726-0153		Cable Tie		58	712-0267		Hex Nut 5/16-18 Thd.*	
8	710-0502		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x 1.25" Lg.		59	736-0119		L-Wash. 5/16" I.D.*	
9	723-0155		Gas Gauge		60	736-0119		L-Wash. 5/16" I.D.*	
10	751-0335		Fuel Tank	N	61	712-0267		Hex Nut 5/16-18 Thd.*	
11	751-0173		Gas Line		62	725-0201		Ignition Key	
12	726-0207		Hose Clamp—.406" Dia.		63	725-0267		Ignition Switch (504 and 506)	
13	751-0349		Fuel Shut-Off Valve		64	725-0464		Ignition Switch (502 Only)	
14	15554		Steering Housing Cover	N	65	710-0351		Truss Mach. B-Tap Scr. #10 x .50" Lg.	
15	710-0351		Truss Mach. B-Tap Scr. #10 x .50" Lg.		66	15605		Front Seat Bracket	N
16	15555		Steering Shaft Housing	N	67	15606		Rear Seat Bracket	N
17	710-0376		Hex Bolt 5/16-18 x 1.00" Lg.*		68	736-0242		Bell-Wash. .345" I.D. x .88" O.D.	
18	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		69	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
19	15550		Main Frame	N	70	712-0287		Hex Nut 1/4-20 Thd.*	
20	736-0119		L-Wash. 5/16" I.D.*		71	710-0759		Hex Bolt 5/16-18 x .62" Lg.*	
21	712-0267		Hex Nut 5/16-18 Thd.*		72	736-0329		L-Wash. 1/4" I.D.*	
22	735-0220		Floor Mat	N	73	732-0431		Seat Spring	N
23	736-0119		L-Wash. 5/16" I.D.*		74	736-0160		Fl-Wash. .531" I.D. x .930" O.D.	
24	712-0267		Hex Nut 5/16-18 Thd.*		75	731-0555		Grommet	
25	726-0175		Clamp		76	712-0206		Hex Nut 1/2-13 Thd.*	
26	712-0267		Hex Nut 5/16-18 Thd.*		77	736-0921		L-Wash. 1/2" I.D.*	
27	736-0119		L-Wash. 5/16" I.D.*		78	710-0258		Hex Bolt 1/4-20 x .62" Lg.*	
28	15562		Clutch-Brake Pedal Ass'y.	N	79	736-0242		Bell-Wash. .345" I.D. x .88" O.D.	
29	710-0759		Hex Bolt 5/16-18 x .62" Lg.*		80	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
30	712-0267		Hex Nut 5/16-18 Thd.*		81	15607		Seat Pivot Bracket	N
31	736-0119		L-Wash. 5/16" I.D.*		82	757-0264		Seat Ass'y. Comp.	
32	15588		Mounting Brkt. Variable Speed Pulley	N	83	710-0407		Hex F-Tap Scr. 8-32 x .38" Lg.	
33	736-0329		L-Wash. 1/4" I.D.*		84	751-0341		Exhaust Pipe Ass'y. (502 & 504)	N
34	712-0287		Hex Nut 1/4-20 Thd.*		85	751-0337		Exhaust Pipe Ass'y. (506)	N
35	712-0267		Hex Nut 5/16-18 Thd.*		86	11053		Switch Brkt. Ass'y. (502)	
36	736-0119		L-Wash. 5/16" I.D.*		87	712-0147		Speed Nut #10-24 U-Type (502)	
37	712-0267		Hex Nut 5/16-18 Thd.*		88	712-0121		Hex Nut #10-24 Thd.* (502)	
38	736-0119		L-Wash. 5/16" I.D.*		89	736-0338		Fiber Washer (502)	
39	15552		Transaxle Support Ass'y.	N	90	710-0425		Truss Mach. Scr. #10-24 x .62" Lg.* (502)	
40	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		91	710-0351		Truss Mach. Scr. #10 x .50" Lg.* (502)	
41	15571		Rear Frame Panel	N	92	11263		Plastic Handle (Starter Rope) (502)	
42	710-0621		Hex Bolt 5/16-18 x .50" Lg.*		93	15655		Rope Handle Bracket (502)	N
43	736-0119		L-Wash. 5/16" I.D.*		94	712-0267		Hex Nut 5/16-18 Thd.* (502)	
44	712-0267		Hex Nut 5/16-18 Thd.*		95	736-0119		L-Wash. 5/16" I.D.* (502)	
45	710-0621		Hex Bolt 5/16-18 x .50" Lg.*			732-0257		Switch Spring (502)	
46	736-0119		L-Wash. 5/16" I.D.*						
47	712-0267		Hex Nut 5/16-18 Thd.*						
48	710-0118		Hex Bolt 5/16-18 x .75" Lg.*						
49	15604		Seat Support & Frame Brkt.	N					
50	710-0621		Hex Bolt 5/16-18 x .50" Lg.*						
51	710-0621		Hex Bolt 5/16-18 x .50" Lg.*						

(462—Red Flake)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—11836 (462).)

Models 502, 504 and 506



Models 502, 504 and 506

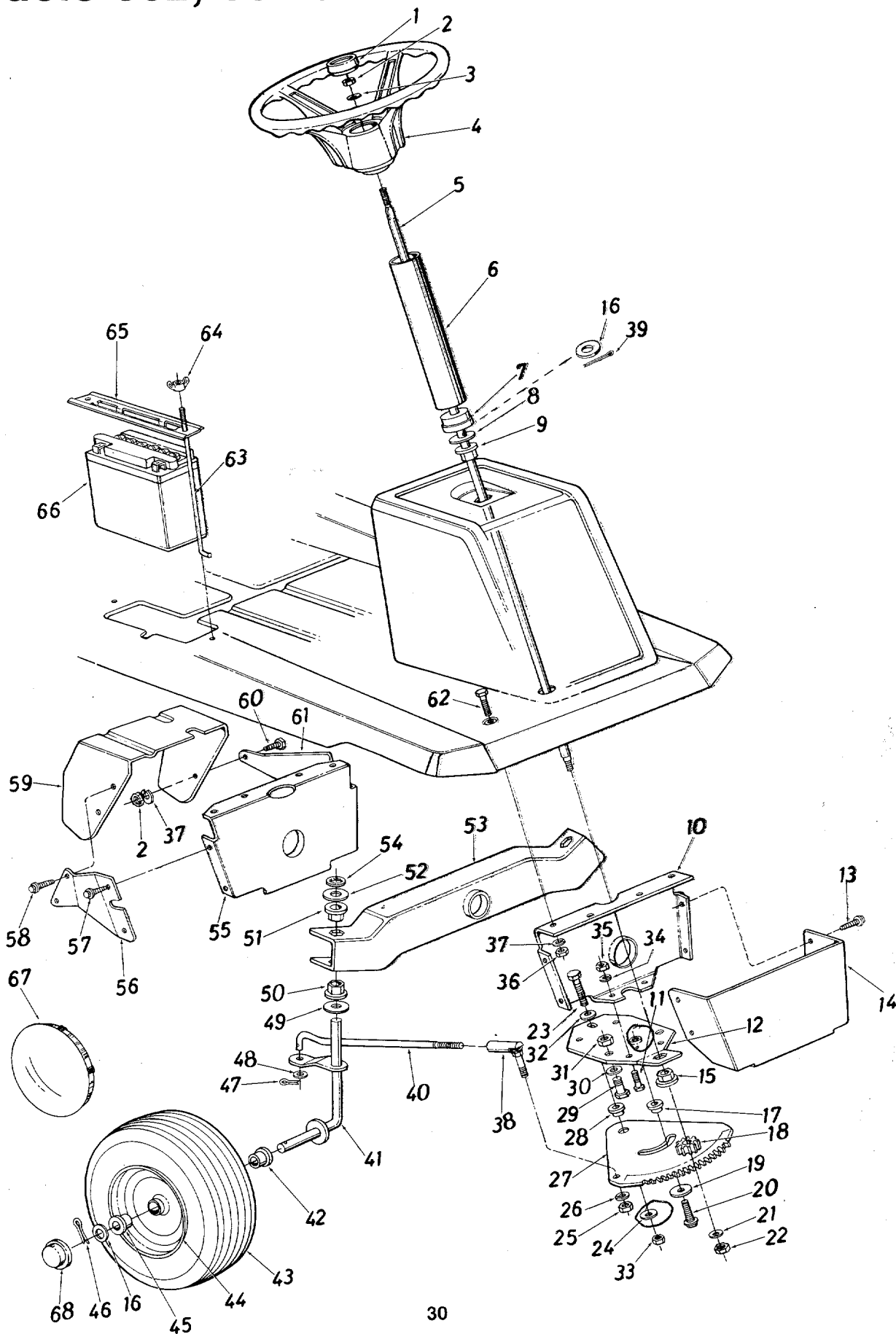
PARTS LIST FOR MODELS 502, 504 AND 506 RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		56	726-0206		Push-In Nut #10	
2	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.		57	736-0329		L-Wash. 1/4" I.D.*	
3	720-0187		Ball Knob		60	732-0420		Spring Switch	
4	732-0437		Compression Spring	N	61	710-0395		Hex Bolt 5/16-18 x 2.25" Lg.*	N
5	736-0119		L-Wash. 5/16" I.D.*		62	747-0430		Upper Shift Lever	N
6	712-0267		Hex Nut 5/16-18 Thd.*		63	747-0394		Speed Control Link	N
7	747-0427		Brake Locking Rod		65	750-0333		Spacer .501" I.D. x .750" O.D. x .775	
8	715-0124		Spring Pin Spir. 5/32" Dia. x .62" Lg.		66	754-0241		"V"-Belt 5/8" L x 35" Lg.	N
9	720-0165		Gear Shift Knob		67	717-0473		Variable Speed Pulley Ass'y.	
10	747-0424		Speed Control Lever	N	68	754-0240		"V"-Belt 5/8" L x 38" Lg.	N
11	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*		69	710-0786		Hex Bolt 1/2-13 x 4.0" Lg.*	
12	736-0253		Bell-Wash. .505" I.D. x 1.00"		70	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.	
13	731-0493		Cap		71	15624		Shift Lever Support	N
14	741-0139		Ball Brg. .50" I.D. x 1.38"		72	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
15	15581		Index Bracket	N	73	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
16	750-0516		Spacer .50" I.D. x .69" O.D. x 1.38" Lg.		74	756-0390		5/8" V-Pulley 6.0" O.D.	
17	736-0179		FI-Wash. .531" I.D. x 1.25"		75	756-0116		"V"-Belt Idler 3.06" O.D.	
18	735-0219		Rubber Wash. .50" I.D. x 1.25" O.D.		76	732-0436 OK		Extension Spring .99" O.D. x 8.0" Lg.	N
19	714-0115		Cotter Pin 1/8 x 1.00" Lg.*		77	710-0314		Hex Bolt 7/16-20 x 1.0" Lg.*	
20	736-0275		FI-Wash. .344" I.D. x .688"		78	736-0171		L-Wash. 7/16" I.D.*	
21	15582		Speed Control Lever Brkt. Ass'y.	N	79	756-0391		Engine Pulley	
22	711-0677		Ferrule—Engagement		80	736-0921		L-Wash. 1/2" I.D.*	
23	15550		Main Frame	N	81	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
25	15562		Clutch-Brake Pedal Ass'y.	N	82	756-0116		"V"-Belt Idler 3.06" O.D.	
26	747-0431		Brake Rod	N	83	736-0253		Bell-Wash. .505" I.D. x 1.00"	
27	736-0275		FI-Wash. .330" I.D. x .68"		84	712-0206		Hex Nut 1/2-13 Thd.*	
29	714-0104		Intern. Cotter Pin 5/16" Dia.		85	711-0676		Torque Rod 3.835" Lg.	N
31	720-0165		Gear Shift Knob		86	748-0294		Flange Bearing .378	
32	15659		Shift Lever Brkt.	N	87	736-0187		FI-Wash. .640" I.D. x 1.24"	
34	732-0369		Spring		88	714-0114		Sq. Key 1/4" x 2.00" Lg.*	
36	15637		Shift Lever Ass'y.	N	89	15569		Idler Bracket Ass'y.	N
37	726-0106		Cap Speed Nut 1/4" Rod		90	736-0283		Thrust Wash. .635" I.D. x 3.50" O.D.	
38	**		Rear Wheel Rim Only		91	734-0255		Air Valve	
40	710-0627		Hex L-Bolt 5/16-24 x .75" Lg.		92	15585		Idler Bracket Ass'y.	
41	**		Rear Wheel Ass'y. Comp.		93	747-0422		Clutch Rod	N
42	714-0470		Cot-Pin 1/8" Dia. x 1.25		94	735-0196		Foot Pad	
43	732-0389		Ext. Spring .75" O.D. x 17.0" Lg.		98	712-0206		Hex Nut 1/2-13 Thd.*	
44	747-0421		Shift Rod	N	99	736-0921		L-Wash. 1/2" I.D.*	
46	717-0775		Transaxle Comp.	N	100	15588		Mounting Bracket Variable Speed Pulley	N
47	710-0136		Hex Bolt 1/4-20 x 1.75" Lg.*		101	15642		Weld Scr. Brkt. Ass'y.	N
48	15625		Lower Outside Belt Guard		102	15605		Front Seat Bracket	N
49	710-0176		Hex Bolt 5/16-18 x 2.75" Lg.*	N	103	736-0284		Thrust Wash. .385" I.D. x 3.50" O.D.	N
51	15552		Transaxle Support Ass'y.	N	104	711-0747		Belt Guard Pin 1/4" Dia. x 1.68" Lg.	
52	710-0180		Hex Bolt 3/8-24 x .75" Lg.*		105	15623		Upper Engine Belt Guard	N
53	15564		Torque Rod Bracket	N	106	712-0287		Hex Nut 1/4-20 Thd.*	
54	712-0287		Hex Nut 1/4-20 Thd.*		107	736-0329		L-Wash. 1/4" I.D.*	
55	710-0789		C-Sink AB S-Tap Scr. #8 x .50"		108	710-0352		Hex Bolt 1/4-20 x .75" Lg.*	
					109	732-0303		Brake Return Ext. Spring 3.18" Lg.	

**REAR WHEEL CHART

Description	16 x 6.50—Part No.	15 x 6.0—Part No.	13 x 5.0—Part No.
Wheel Assembly Comp.	734-0591	734-0524	734-0523
Tire Only	734-0275	734-0427	734-0298
Rim Only	734-0594	734-0521	734-0517

Models 502, 504 and 506



Models 502, 504 and 506

PARTS LIST FOR MODELS 502, 504 AND 506 RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		33	712-0241		Hex Nut 3/8-24 Thd.*	
2	712-0267		Hex Nut 5/16-18 Thd.*		34	736-0119		L-Wash. 5/16" I.D.*	
3	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		35	712-0267		Hex Nut 5/16-18 Thd.*	
4	731-0219		Steering Wheel Ass'y.		36	712-0267		Hex Nut 5/16-18 Thd.*	
5	738-0537		Steering Shaft	N	37	736-0119		L-Wash. 5/16" I.D.*	
6	750-0568		Steering Tube Spacer (Chrome)	N	38	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
7	731-0651		Steering Tube Spacer	N	39	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
8	736-0187		Fl-Wash. .640" I.D. x 1.25" O.D.		40	747-0417		Steering Tie Rod	N
9	741-0225		Hex Flange Bearing		41	15616		Front Axle Ass'y.—R.H.	N
10	15613		Pivot Bar Bracket	N		15617		Front Axle Ass'y.—L.H. (Not Shown)	N
11	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		42	741-0313		Flange Bearing .632" I.D.	
12	15614		Steering Gear Support Brkt.	N	43	**		Front Wheel Ass'y. Comp.	
13	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.		44	**		Front Wheel Rim Only	
14	15608		Steering Gear Cover	N	45	741-0313		Flange Bearing .632" I.D.	
15	741-0225		Hex Flange Bearing		46	714-0470		Cotter Pin 1/8" Dia. x 1.25" Lg.*	
16	736-0285		Fl-Wash. .640" I.D. x 1.62" O.D.		47	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
17	738-0541		Shoulder Spacer .622 Dia. x .218	N	48	736-0300		Fl-Wash. .385" I.D. x .87" O.D.	
18	748-0290		Steering Pinion Gear	N	49	736-0156		Fl-Wash. .635" I.D. x 1.12" O.D.	
19	736-0300		Fl-Wash. .385" I.D. x .87" O.D.		50	741-0225		Hex Flange Bearing	
20	710-0502		Hex Wash. Hd. Self-Tap Scr. 3/8-16 x 1.25" Lg.		51	741-0225		Hex Flange Bearing	
21	736-0242		Bell-Wash. .345" I.D. x .88" O.D.		52	736-0156		Fl-Wash. .635" I.D. x 1.12" O.D.	
22	712-0123		Hex Nut 5/16-24 Thd.*		53	15610		Pivot Bar Ass'y.	N
23	710-0191		Hex Bolt 3/8-24 x 1.25" Lg. (Grade 5)		54	726-0159		Speed Nut 5/8" I.D.	
24	736-0105		Bell-Wash. .385" I.D. x .88" O.D.		55	15613		Pivot Bar Bracket	N
25	712-0241		Hex Nut 3/8-24 Thd.*		56	15694		Bracket Reinforcement—R.H.	N
26	736-0169		L-Wash. 3/8" I.D.*		57	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.	
27	717-0472		Steering Gear Segment	N	58	710-0776		Hex Wash. Hd. AB-Tap Scr. 1/4 x .62" Lg.	
28	738-0541		Shoulder Spacer .622" Dia. x .218	N	59	15562		Clutch-Brake Pedal Ass'y.	N
29	710-0689		Hex Bolt (Nylon) 1/2-13 x .75" Lg.		60	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
30	736-0160		Fl-Wash. .530" I.D. x .930" O.D.		61	15699		Bracket Reinforcement—L.H.	N
31	712-0206		Hex Nut 1/2-13 Thd.*		62	710-0118		Hex Bolt 5/16-18 x .75" Lg.*	
32	736-0105		Bell-Wash. .385" I.D. x .88" O.D.		63	711-0222		Battery Hold Down Rod†	
					64	712-0113		Wing Nut Solid 1/4-20 Thd.†	
					65	12925		Battery Hold Down Brkt.†	
					66	725-0514		12V Battery†	
					67	734-1002		Chrome Hub Cap (Optional)	
					68	731-0484		Plastic Hub Cap (Optional)	

(462—Red Flake)

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†Models 504 and 506 Only

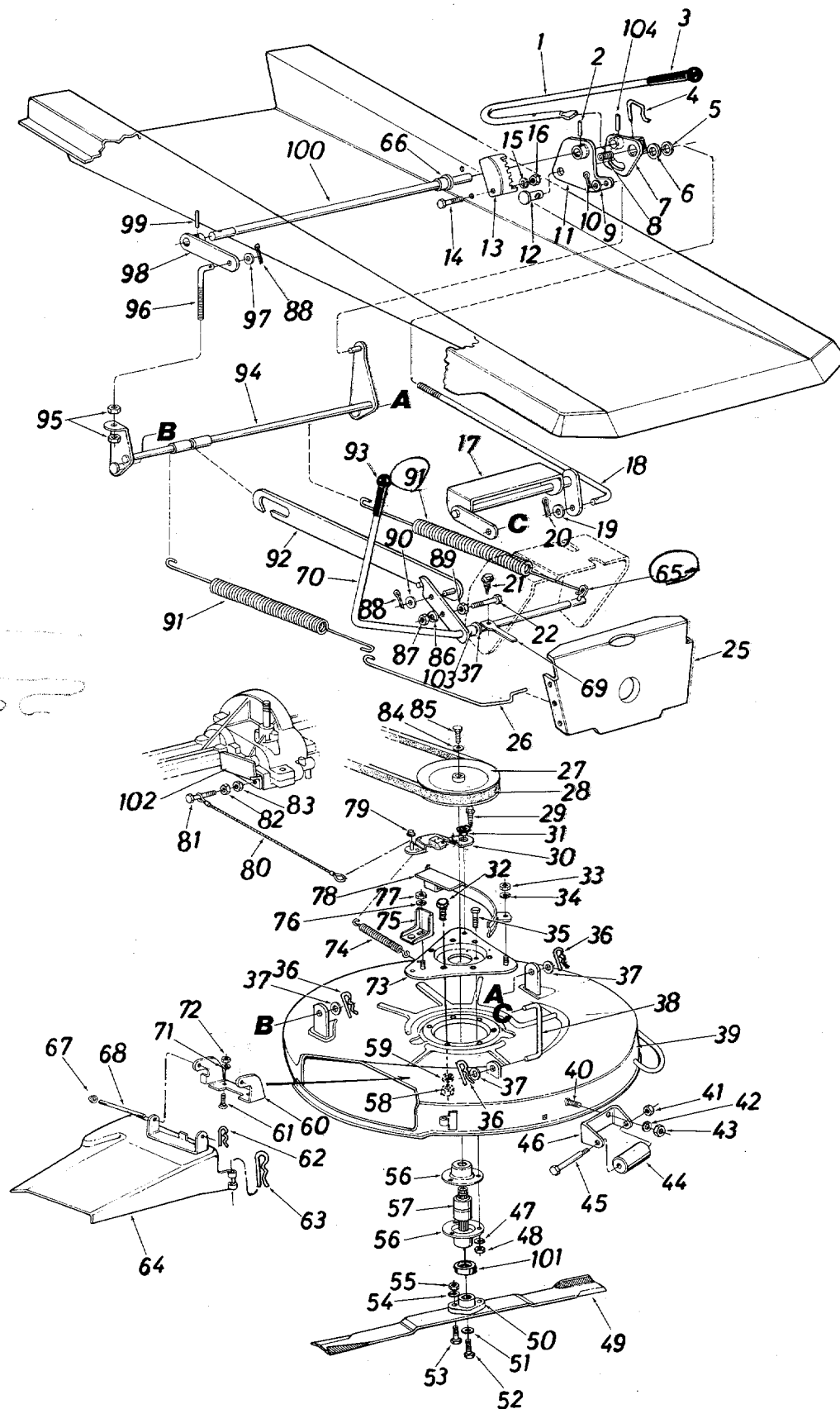
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734-1185 11x4-4 RIB
1382 " TURF TRAC

**FRONT WHEEL CHART

Description	11 x 4.0—Part No.	10.5 x 3.5—Part No.
Wheel Assembly Comp.	734-1044	734-1000
Tire Only	734-0770	—
Rim Only	734-1042	—
Bearing	741-0313	741-0313
Air Valve	734-0255	—

Models 502, 504 and 506

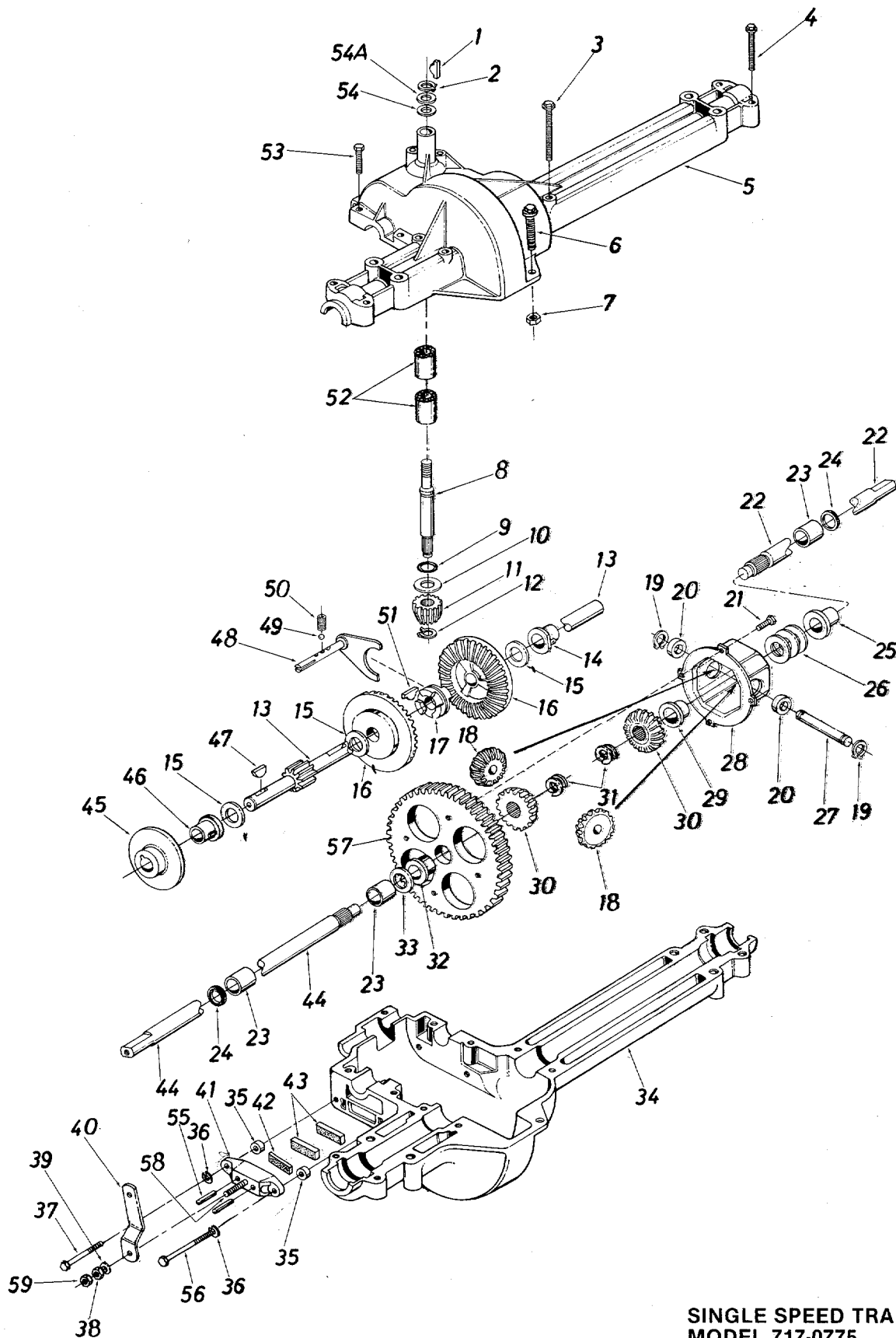


Models 502, 504 and 506

PARTS LIST FOR MODELS 502, 504 AND 506 RIDING MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	747-0418		Deck Lift Handle	N	54	736-0119		L-Wash. 5/16" I.D.*	
2	715-0114		Spring Pin Spir. 1/4" Dia. x 1.50" Lg.		55	712-0123		Hex Nut 5/16-24 Thd.*	
3	720-0143		Grip		56	12724		Housing Bearing Spindle	
4	714-0166		Cotter Pin (Special)	N	57	741-0211		Blade Spindle	
5	736-0162		FI-Wash. 5/8" I.D. x 1.0" O.D. x .12		58	712-0267		Hex Nut 5/16-18 Thd.*	
6	736-0187		FI-Wash. 5/8" I.D. x 1.25" O.D. x .60		59	736-0119		L-Wash. 5/16" I.D.*	
7	15576		Deck Lift Handle Brkt. Ass'y.	N	60	15226		Deck Hinge Brkt.	
8	732-0430		Compression Spring .50" O.D. x 1.04		61	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*	
9	736-0300		FI-Wash. .385" I.D. x .87" O.D. x .06		62	714-0104		Intern. Cotter Pin 5/16" Dia.	
10	714-0115		Cotter Pin 1/8" Dia. x 1.00"*		63	714-0155		Cotter Pin	
11	15578		Deck Lift Brkt. Ass'y.—L.H.	N	64	15567		Chute Deflector Ass'y.	N
12	711-0749		Adj. Ferrule—Deck Lift Handle	N	65	711-0753		Spec. Clevis Pin .250" Dia.	N
13	15581		Index Bracket		66	741-0313		Flange Brg. .630" I.D. x .810"	
14	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		67	726-0106		Cap Speed Nut 1/4" Rod	
15	736-0119		L-Wash. 5/16" I.D.*		68	747-0303		Hinge Pin	
16	712-0267		Hex Nut 5/16-18 Thd.*		69	732-0435		Switch Actuator	
17	15573		Deck Lift Ass'y. Front	N	70	15568		Blade Engagement Lever Ass'y.	N
18	747-0426		Deck Lift Connecting Rod	N	71	736-0329		L-Wash. 1/4" I.D.*	
19	736-0300		FI-Wash. .385" I.D. x .87" O.D. x .06		72	712-0287		Hex Nut 1/4-20 Thd.*	
20	714-0115		Cotter Pin 1/8" Dia. x 1.00"*		73	15647		Spindle Mtg. Bracket Ass'y.	N
21	710-0599		Hex Wash. Hd. Self-Tap Scr. 1/4-20 x .50" Lg.		74	732-0157		Extension Spring .38" O.D. x 3.25" Lg.	
22	710-0805		Hex Bolt 5/16-18 x 1.50" Lg.*		75	10426		Belt Keeper Ass'y.	
25	15613		Pivot Bar Bracket	N	76	736-0242		Belleville Wash. 5/16" I.D.	
26	732-0439		Spring Hook		77	712-0267		Hex Nut 5/16-18 Thd.*	
27	756-0201		Deck Pulley 7.00" O.D.		78	15627		Belt Guard	
28	754-0264		"V"-Belt 1/2" x 52" Lg.	N	79	726-0106		Cap Speed Nut 1/4" Rod	
29	710-0604		Hex Wash. Hd. Self-Tap Scr. 5/16-18 x .62" Lg.		80	727-0277		Brake Cable Ass'y.	
30	15632		Blade Brake Brkt. Ass'y.	N	81	710-0106		Hex Bolt 1/4-20 x 1.25" Lg.*	
31	748-0234		Shoulder Spacer		82	712-0287		Hex Nut 1/4-20 Thd.*	
32	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		83	712-0287		Hex Nut 1/4-20 Thd.*	
33	712-0267		Hex Nut 5/16-18 Thd.*		84	736-0217		L-Wash. 3/8" I.D. Heavy Duty	
34	736-0119		L-Wash. 5/16" I.D.*		85	710-0180		Hex Bolt 3/8-24 x .75" Lg.*	
35	710-0118		Hex Bolt 5/16-18 x .75" Lg.*		86	736-0119		L-Wash. 5/16" I.D.*	
36	714-0145		Intern. Cotter Pin 1/2" Dia.		87	712-0267		Hex Nut 5/16-18 Thd.*	
37	736-0160		FI-Wash. .531" I.D. x .930"		88	714-0115		Cotter Pin 1/8" Dia. x 1.00"*	
38	747-0428		Deck Link 3.9" Lg.	N	89	712-0267		Hex Nut 5/16-18 Thd.*	
39	15620		30" Deck Ass'y.	N	90	736-0300		FI-Wash. .385" I.D. x .87"	
40	710-0260		Carriage Bolt 5/16-18 x .62" Lg.*		91	732-0440		Extension Spring .99" O.D. x 14.25" Lg.	N
41	712-0798		Hex Nut 3/8-16 Thd.*		92	15644		Deck Drive Control Brkt. Ass'y.	N
42	736-0119		L-Wash. 5/16" I.D.*		93	720-0143		Grip	
43	712-0267		Hex Nut 5/16-18 Thd.*		94	15600		Deck Link Ass'y.—Rear	N
44	731-0397		Skid Roller		95	712-0798		Hex Nut 3/8-16 Thd.*	
45	738-0114		Shoulder Bolt .498" Dia. x 4.75		96	710-0866		Deck Adj. Scr. 3/8-16 Thd.	N
46	15104		Brkt. Roller Mtg.		97	736-0300		FI-Wash.	
47	736-0119		L-Wash. 5/16" I.D.*		98	15609		Deck Lift Brkt. Ass'y.—R.H.	N
48	712-0267		Hex Nut 5/16-18 Thd.*		99	715-0114		Spring Pin Spir. 1/4" Dia. x 1.50" Lg.	
49	742-0193		30" Blade		100	738-0550		Rear Height Adj. Shaft	N
50	748-0235		Blade Adapter		101	12944		Bearing Guard	
51	736-0217		L-Wash. 3/8" I.D. Heavy Duty		102	15626		Lower Inside Belt Guard	N
52	710-0180		Hex Bolt 3/8-24 x .75" Lg.*		103	750-0515		Sleeve .511" I.D. x .70" O.D. x .37" Lg.	
53	710-0888		Hex Bolt 5/16-24 x 1.00" Lg.*	N	104	715-0134		Spring Pin Spir. 3/16" Dia. x 1.50" Lg.	
						15640		30" Deck Ass'y. Comp. (Service Only)	

Models 502, 504 and 506



SINGLE SPEED TRANSAXLE
MODEL 717-0775

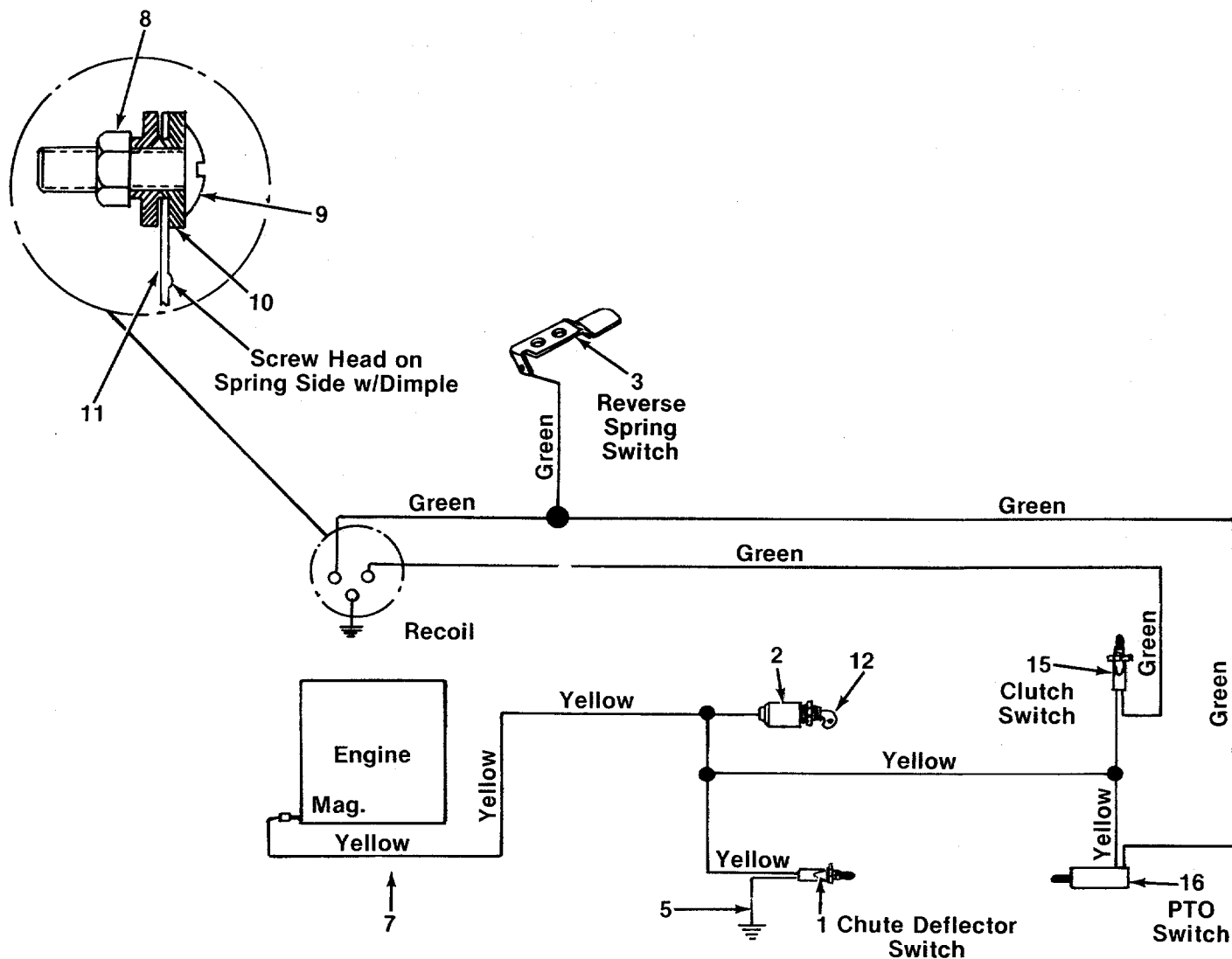
Models 502, 504 and 506

PARTS LIST FOR SINGLE SPEED TRANSAXLE 717-0775

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		32	741-0376		Flange Bearing 3/4" I.D. x .587	
2	716-0115		Snap Ring .625" Shaft		33	736-0188		FI-Wash. .760" I.D. x 1.49" O.D.	
3	710-0854		Hex Bolt 1/4-20 x 1.75" Lg.*	N	34	717-0761		Lower Housing	N
4	710-0809		Hex Bolt 1/4-20 x 1.25" Lg.*	N	35	750-0555		Spacer .53" O.D. x 3/8" Lg.	N
5	717-0764		Upper Housing	N	36	736-0329		L-Wash. 1/4" I.D.*	
6	710-0889		Hex FI-Bolt 1/4-20 x .88" Lg.*	N	37	710-0886		Hex Bolt 1/4-20 x 1.50" Lg. (Grade 5)	N
7	712-0298		Hex Jam Nut 1/4-20 Thd.*		38	712-0123		Hex Nut 5/16-24 Thd.*	
8	717-0634		Input Shaft	N	39	736-0159		FI-Wash. .344" I.D. x .875" O.D.	
9	721-0178		Square Seal 5/8" I.D.	N	40	717-0772		Actuating Arm	N
10	736-0335		Thrust Washer 5/8" I.D. x 1.25" O.D.	N	41	717-0679		Brake Yoke	N
11	717-0633		Pinion Input 14T	N	42	717-0682		Puck Plate	N
12	716-0108		Retaining Ring 7/16" Ext.		43	717-0678		Brake Puck	N
13	717-0768		Drive Shaft	N	44	717-0770		Axle L.H.	N
14	741-0336		Flange Brg. 5/8" I.D. x 3/4" Lg.*	N	45	717-0677		Brake Disc	N
15	**		FI-Wash. (See Below)		46	741-0337		Flange Bearing 5/8" I.D. x 15/16" Lg.	N
16	717-0757		Bevel Gear 42T	N	47	714-0161		Woodruff Key 3/16 x 5/8 HT	
17	717-0667		Clutch Collar	N	48	717-0754		Shift Fork Ass'y.	N
18	717-0674		Miter Gear 15T	N	49	741-0862		Ball Detent .250" Dia.	
19	716-0142		Snap Ring		50	732-0863		Spring Detent	
20	717-0690		Thrust Bearing 1/2" I.D. x 1.0" O.D.	N	51	714-0126		#9 Hi-Pro Key 3/16" x 3/4" Dia. HT	
21	710-0862		Pan Head Scr. 1/4-20 x .50" Lg. w/Patc.	N	52	741-0335		Needle Brg. 5/8" I.D. x 1/2" Lg.	
22	717-0771		Axle R.H.	N	53	710-0855		Hex Bolt 1/4-20 x 1.00" Lg.	N
23	741-0340		Sleeve Bearing 3/4" I.D. x 1.0" Lg.	N	54	736-0336		FI-Wash. 5/8" I.D. x .030	
24	721-0179		Oil Seal 3/4" I.D.	N	54A	736-0337		FI-Wash. 5/8" I.D. x .040	
25	741-0339		Flange Bearing 3/4" I.D. x 15/16" Lg.	N	55	741-0343		Actuating Pin 5/16" Dia.	
26	736-0188		FI-Wash. .760" I.D. x 1.49" O.D.		56	710-0886		Hex Bolt 1/4-20 x 1.50" Lg. (Grade 5)	N
27	717-0673		Cross Shaft	N	57	717-0759		Differential Gear 72T	N
28	717-0669		Housing Differential	N	58	717-0681		Sq. Hd. Bolt 5/16-24 Thd.	N
29	741-0338		Flange Bearing 3/4" I.D. x .53" Lg.	N	59	712-0256		Hex Jam Nut 5/16-24 Thd.*	
30	717-0687		Miter Gear	N	—	737-0148		Grease—Shell (10 oz.)	
31	716-0144		Retaining Ring						

**Ref. No. 15 736-0349 FI-Wash. 5/8" I.D. x 1.0" O.D.
736-0336 FI-Wash. 5/8" I.D. x .030" O.D.
736-0337 FI-Wash. 5/8" I.D. x .040" O.D.

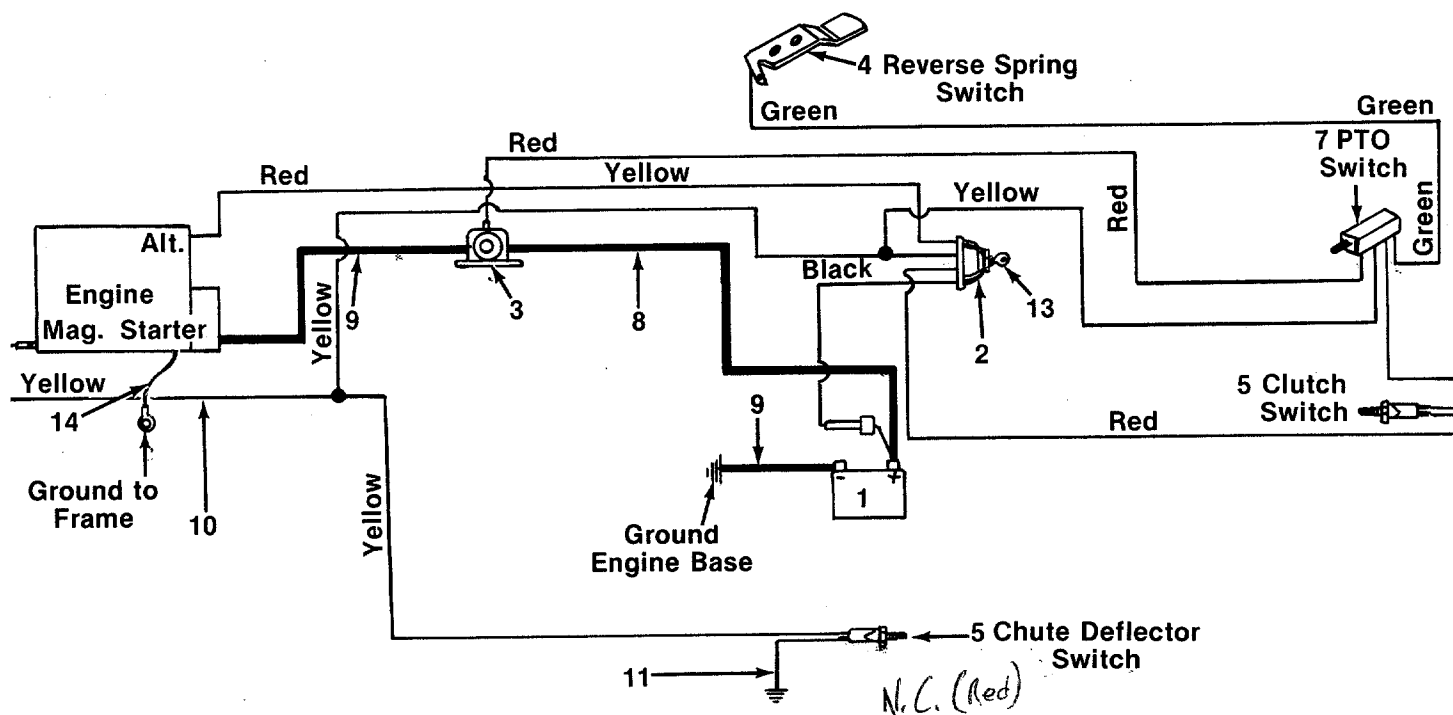
Model 502 Only



PARTS LIST FOR ELECTRICAL SYSTEM RIDING MOWER MODEL 502 ONLY

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0268		Safety Switch	
2	725-0464		Key Switch	
3	732-0420		Spring Switch	
4	725-0863		Wire Harness	
5	725-0765		Wire Lead	
7	731-0652		Convuluted Conduit 24" Lg.	
8	712-0121		Hex Nut #10-24	
9	710-0425		Truss Mach. Scr. #10-24 x .62	
10	736-0338		Fiber Washer	
11	732-0257		Spring Switch	
12	725-0201		Ignition Key	
15	725-0269		Safety Switch	
16	725-0819		Safety Switch	

Models 504 and 506 Only



**PARTS LIST FOR ELECTRICAL SYSTEM
RIDING MOWER MODELS 504 AND 506 ONLY**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0514		Battery	
2	725-0267		Key Switch	
3	725-0771		Solenoid	
4	732-0420		Spring Switch	
5	725-0268		Safety Switch (BLACK)	
7	725-0819		Safety Switch	
8	725-0221		Electric Wire	
9	725-0421		Electric Wire	
10	731-0652		Convoluted Conduit 24" Lg.	
11	725-0765		Wire Lead	
12	725-0861		Wire Harness	
13	725-0201		Ignition Key	
14	725-0882		Ground Wire	

(725-0269 Red N.C.)
(N.C. = normally closed)

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S. 35233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	5301 Roundtop Drive
	Box 368, Rt. 4 72117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street 93257
COLORADO	DENVER
Spitzer Industrial Products Co.	Box 29114, 6601
	N. Washington St. 80229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St.
	Box 5459 32207
	OPA LOCKA
Small Eng. Dist.	2351 N.W. 147th St. 33054
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St. 30344
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave. 60534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. 46514
IOWA	DUBUQUE
Power Lawn & Garden Equip.	2551 J.F. Kennedy 52001
LOUISIANA	MONROE
Mid-South Power	700 Pine St. 71201
	NEW ORLEANS
Suhren Engine Co.	8330 Earhart Blvd. 70118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire
	Ave. 20912
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave. 01107
MICHIGAN	LANSING
Lorenz Service Co.	2500 S. Pennsylvania 48910
	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard 48043
MINNESOTA	HOPKINS
Hance Distributing Inc.	420 Excelsior Ave. W. 55343
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St. 39533
MISSOURI	KANSAS CITY
Automotive Equip. Service	3117 Holmes St. 64109
	ST. JOSEPH
Ross-Frazier Supply Co.	8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry
	Road 63125
NEW JERSEY	BELMAWR
Lawnmower Parts Inc.	717 Creek Rd. 08030
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts	1023 Third Ave. N.W. 87103
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. 13619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	515 N. George St. 27530
	GREENSBORO
Dixie Sales Company	335 N. Green 27402
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St. 43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave. 44102
	WADSWORTH
National Central	687 Seville Rd. 44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave.
	Box 929 44501
OKLAHOMA	MUSKOGEE
Victory Motors, Inc.	605 S. Cherokee 74401
OREGON	PORTLAND
Kenton Supply Co.	8216 N. Denver Ave. 97217
PENNSYLVANIA	HARRISBURG
EECO Inc.	4021 N. 6th St. 17110
	PHILADELPHIA
Thompson Rubber Co.	5222-24 N. Fifth St. 19120
	PITTSBURGH
Bluemont Co.	11125 Frankstown Rd. 15235
	PUNXSUTAWNEY
Frank Roberts & Sons	R.D. 2 15767
TENNESSEE	KNOXVILLE
Master Repair Service	2000 Western Ave. 37921
	MEMPHIS
American Sales & Service, Inc.	3035-43 Bellbrook 38116
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson 75203
	FORT WORTH
Woodson Sales Corp.	1702 N. Sylvania 76111
	HOUSTON
Bullard Supply Co.	2409 Commerce St. 77003
	SAN ANTONIO
Engine House Inc.	8610 Botts Lane
	P.O. Box 17867 78217
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co.	439 E. 900 So. 84111
VIRGINIA	ASHLAND
RBI Corp.	Lake Ridge Rd.
	101 Cedar Run Dr. 23005
WASHINGTON	SEATTLE
Bailey's Inc.	1414 14th Ave. 98122
WISCONSIN	MARSHFIELD
Power Pac	301 E. 29th St. 54449
	APPLETON
Appleton Automotive Supply Co.	123 S. Linwood Ave.
	P.O. Box 798 54911
	TWIN LAKES
E-K on Small Engine Spec.	122 Lance Dr. 53181

WARRANTY PARTS AND SERVICE POLICY

(0782)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.